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Kartheek Vadlamani

- ★ Seasoned Technical Leader
- ★ 12+ years experience across Artificial Intelligence, Insurance, E-Commerce, Pharmaceutical, Retail, Manufacturing, Consulting Domains
- ★ Experience building multiple projects from the scratch, including budgetary decisions
- ★ Progressively responsible and leadership roles collaborating with CXOs and Senior Managers
- ★ IIM Calcutta | Andhra University

SUMMARY

- Led and managed cross-functional teams of software engineers, totaling over 50 employees, to deliver high-quality software products within strict deadlines.
- Implemented agile methodologies and fostered a culture of continuous improvement, resulting in an increase in team productivity and a reduction in time-to-market for software releases.
- Successfully developed and executed project plans, resulting in the on-time delivery of multiple complex software projects, each with a budget exceeding $1 million.
- Mentored and coached software engineers, fostering their professional growth and development. Several team members advanced to senior roles within the organization under my guidance.
- Introduced robust quality assurance processes, resulting in a reduction in software defects and an improvement in customer satisfaction scores.
- Collaborated with product management teams to translate business requirements into technical specifications, ensuring alignment and successful delivery of customer-driven features.
- Developed and maintained strong relationships with stakeholders, including C-level executives, product managers, and cross-functional teams, to ensure effective communication and alignment on strategic objectives.
- Successfully managed software engineering budgets, achieving cost savings through effective resource allocation and vendor negotiations.
- Proactively identified and mitigated project risks, resulting in a reduction in project delays and cost overruns.
- Demonstrated strong leadership capabilities by fostering a collaborative and inclusive team environment, promoting knowledge sharing, and encouraging innovation.
- Received multiple awards and recognition for exceptional project delivery, outstanding leadership, and significant contributions to organizational growth and success.

EXPERTISE

Cloud Transformation	Microservices	DevSecOps/DevOps	Strategic Planning
Operational Excellence	Vendor Management	Product Development	People Management
Project Management	Leadership	IT Strategy and Planning	SAFe/Agile/Kanban/Scrum
Budget Management, P&L	Azure Solutions Architect	Open-Source Frameworks	Identity Management
Process Improvement	Cross-functional Teams	Mobile Applications	

CERTIFICATIONS

University of Maryland	Developing Innovative Ideas for New Companies
KAIST Business School	Supply Chain Management: A Learning Perspective
RABQSA Certified	**Six Sigma**
	Project Management Professional (PMP)®
	SAFe® Release Train Engineer (SAFe RTE) (In Progress)

TOOLS AND TECHNOLOGIES

CI/CD Tools: Jenkins, Fortify, SonarQube, Docker, Kubernetes
Programming/ Scripting Languages: Java, Python, Spark, Scala, SQL, NoSQL.
SCM Tools: Git, Github, Bitbucket
Build Tools: Azure DevOps, Maven, Gradle, IntelliJ, Eclipse, Visual Studio.
Bug tracker &Testing tools: Jira, Bugzilla, MS Test, NUnit, HP QC, Test Rail
Project Management Tools: MS Project, Azure ADO, Jira, MS Visio, MS SharePoint, Confluence
Application/Web Servers: Apache, Tomcat, Nginx, MSMQ, BizTalk
Databases: Azure Cosmos DB, Microsoft SQL Server, Oracle, MongoDB
Directory Services: Microsoft Active Directory, Azure IAM, AWS-IAM, LDAP
Monitoring and Log Analytics: New Relic, Dynatrace, AppDynamics, Splunk
Cloud Computing: Amazon Web Services, Microsoft Azure, Google Cloud
ETL/ Data warehouse: SSIS, SAS, Informatica, SAP, Azure Synapse, Azure Data Lake
ERP/CRM: Peoplesoft, Oracle, MS Dynamics 365, Salesforce

PROFESSIONAL EXPERIENCE

Humana, Dallas, TX — *Senior Manager, Software Engineering*

NOVEMBER 2021 - TILL DATE

- As an Engineering Manager, successfully led teams in the Workforce Management (WFM) Domain, overseeing technical solution designs and implementation for multiple projects in the domains of Orchestrations, Messaging, API, and REST-based services, while managing a budget of $5 million. Made strategic budgetary decisions to allocate resources effectively and ensure the successful delivery of robust and scalable solutions.
- Directly managed a team of 15 Software Engineers responsible for designing and developing a Digital Health Platform using microservices within a budget of $2 million. Emphasized performance engineering and loose coupling, resulting in exceptional system efficiency and resilience.
- Worked closely with the Product Management team, and collaborated to meet and exceed all committed product timelines, within a budget of $1.5 million. Led the creation of complex integration solutions using APIs and Services, leveraging industry-leading technologies such as IBM Middleware and API Management Platforms like IBM API Connect (APIC), with a budget allocation of $1 million. Made budgetary decisions to invest in licenses, training, and infrastructure costs, totaling approximately $500,000.
- Received high-level initiative descriptions and directions from our Executive Leadership, making director-level decisions to drive clear problem and success definitions for my teams. Collaborated with cross-functional teams within the company to eliminate roadblocks, define API standards, establish best practices, and implement effective governance policies. Made budgetary decisions to allocate resources for cross-functional collaboration tools and platforms, costing approximately $100,000, ensuring optimal organizational structure within the development team and consistently delivering projects on time and within budget.
- Took charge of the hiring plan, consistently focusing on improving talent and engagement levels within my teams, with a budget allocation of $500,000 for recruitment and talent acquisition efforts. Fostered a high-performing and motivated environment, contributing to the overall strategic direction of the organization at department-level meetings and functions.
- In the face of dynamic and shifting demands, continually prioritized and assigned work based on team capabilities, demonstrated expertise in designing scalable, fault-tolerant, and highly available solutions in a cloud environment, with a budget allocation of $2.5 million for cloud infrastructure and services. Emphasized product quality KPIs and organized SLAs for the teams, allocating resources and budget for quality assurance tools and testing environments, totaling approximately $200,000.
- Efficient workflow management was a priority, and successfully separated and combined tasks to optimize productivity, making budgetary decisions to invest in task management and productivity tools, costing approximately $50,000. Gained extensive experience in event-driven architecture and event streaming using Kafka and messaging systems, with a budget allocation of $300,000 for messaging platforms and technologies.
- Conducted actionable feedback drives, supporting team members in their journey to high performance, with a budget allocation of $50,000 for training and coaching programs. Worked closely with individuals to set challenging development goals, ensuring their growth and development aligned with internal and external customer expectations.

- Taking full responsibility for project deliverables, curated performance testing and optimization of APIs and Services using tools like JMeter, LoadRunner, or Gatling, with a budget allocation of $100,000 for performance testing tools and environments. Leveraged containerization technologies like Docker and Kubernetes to deploy microservices on these platforms, enhancing scalability and efficiency.
- Overall, made strategic budgetary decisions and director-level choices to optimize resource allocation, drive project success, and ensure efficient operations within the allocated budget of $5 million.

Express Scripts, New Jersey — *Engineering Manager*

MARCH 2021 - NOVEMBER 2021

- Led and directed the design and implementation of enterprise-grade solutions for Middleware, Messaging, API, and REST-based services, ensuring adherence to enterprise standards and architecture blueprints, while managing a budget of $2 million.
- Oversaw the development of RESTful APIs and microservices using Java frameworks, prioritizing performance engineering and fostering loose coupling to enhance system efficiency and scalability, within a budget of $1.5 million. Made budgetary decisions to allocate resources and licenses for necessary software tools, costing approximately $500,000.
- Orchestrated the design and execution of complex integration solutions using APIs and Services, leveraging cutting-edge technologies such as IBM Middleware and API Management Platforms like IBM API Connect (APIC), with a budget allocation of $1.2 million. Budgetary decisions were made to invest in licenses, training, and infrastructure costs, totaling approximately $800,000.
- Demonstrated exceptional skills in data analysis, identifying new business opportunities, and nurturing customer relationships, resulting in a remarkable 15% increase in customer acquisition and significant revenue growth. Budgetary decisions were made to allocate $500,000 for data analysis tools and customer relationship management systems.
- Spearheaded the architectural planning and successful execution of a framework to migrate existing mainframe applications to Java-based applications, leading to a 40% reduction in maintenance costs and enhanced scalability. Made budgetary decisions to allocate $1.8 million for infrastructure upgrades, training, and development costs, resulting in cost savings of approximately $1 million.
- Collaborated closely with cross-functional teams to design user epic stories that aligned with project objectives and timelines, ensuring seamless execution of features within the current sprint, while managing a project budget of $1.2 million.
- Engaged in pair programming sessions with developers to foster knowledge sharing, discuss best coding practices, and provide guidance on architectural design decisions, within the allocated budget of $200,000 for training and collaboration tools.
- Implemented automated build processes for deployment in an AWS workspace, streamlining the deployment workflow and achieving a notable 30% reduction in deployment time, with a budget allocation of $300,000 for automation tools and infrastructure upgrades.
- Translated architectural designs into software components, facilitating effective implementation, and created comprehensive documentation to ensure clarity and alignment with approved designs, with a budget of $150,000 for documentation platforms and tools.

- Developed rigorous test cases using frameworks like JUnit and Mockito, attaining an exceptional test coverage of 95% and ensuring the delivery of robust and high-quality software.
- Utilized code coverage tools such as SonarQube and Jacoco to enforce code standards, maintain code quality, and continuously improve the software development process, with a budget allocation of $50,000 for code analysis tools.
- Led weekly release cycles and successfully integrated new features following continuous integration and Test-Driven Development (TDD) principles in an agile environment, resulting in a 20% reduction in release cycle time and heightened customer satisfaction.
- Implemented advanced logging frameworks like Log4J, Slf4j, Elasticsearch (Kibana), and AWS CloudWatch, proactively monitoring logging events and swiftly detecting and resolving issues, leading to a remarkable 25% reduction in system downtime.
- Established and Created a Service Reliability Engineering team for project maintenance and creating comprehensive documentation on the internal architecture of the system, facilitating efficient knowledge transfer and ensuring smooth onboarding of new team members, with a budget of $100,000 for documentation platforms and knowledge sharing tools.
- Collaborated with technical architects across teams to establish and promote best practices in coding and development, fostering consistency and excellence in software delivery across microservices, within a budget of $300,000 for training programs and code review tools

Capital One, Texas — *Staff Software Engineer*

FEBRUARY 2020 - FEBRUARY 2021

- Built and delivered a highly scalable, resilient, and responsive Enterprise API application in accordance with the modern digital landscape based on the microservices chassis pattern and Java Spring Reactive.
- This enabled efficient handling of concurrent requests, fault tolerance, and seamless integration of event-driven components.
- Handled a high volume of 10 million concurrent requests with a relatively small number of threads, ensuring optimal resource utilization and improved system scalability.
- Implemented resilience and fault tolerance mechanisms such as circuit breakers, retries, and error handling strategies.
- Ensured that the Enterprise API application remained available and responsive even in the face of failures or high load.
- Led the team to work on leveraging Reactive MongoDB non-blocking I/O operations and enabling better performance and scalability for our data-intensive operations in the Enterprise API application.
- Implemented event-driven architecture patterns by pushing all the UI page events and clickstream data to messaging queues like Apache Kafka and ensured loose coupling between microservices.
- Simplified handling asynchronous operations and made it easier to compose complex workflows. Through this we achieved productivity boosts that helped development teams deliver features faster and with fewer bugs.
- Worked on features like metrics collection, distributed tracing, and log aggregation, to gain valuable insights into the behavior and performance of each microservice. This

observability helped in troubleshooting issues, optimizing performance, and ensuring the overall health of the application.

- Deployed, scaled individual microservices, leveraged auto-scaling capabilities, and achieved high availability and fault tolerance by using containerization technologies like Docker and orchestration platforms like Kubernetes.
- Ensured the correctness and stability of each microservice by adopting techniques like contract testing, service virtualization, and integration testing.
- Automated deployment pipelines and infrastructure-as-code practices to streamline the testing and deployment processes, reducing manual effort and improving reliability.
- Demonstrated strong analytical skills and a proactive approach in identifying new business opportunities and strengthening customer relationships, resulting in an increase in customer acquisition and a 20% growth in revenue.
- Led the architecture and development of RESTful web services using Spring Boot in a microservices environment, leveraging advanced Java features, resulting in an improvement in system performance and scalability.
- Proposed and implemented product design features to enhance scalability, usability, and overall performance, resulting in a 23% reduction in user-reported issues and improved customer satisfaction.
- Translated architectural designs into software components and created comprehensive documentation, ensuring alignment with approved designs and facilitating seamless knowledge transfer, reducing onboarding time for new team members by around 20%.
- Successfully tackled complex business and functional requirements, providing technical direction in defining specifications and product requirements, leading to about 15% reduction in requirement-related rework and improved project delivery timelines.
- Implemented Pub/Sub System Architecture using Kafka framework to enhance the messaging capabilities, resulting in an improvement in system reliability and enhanced real-time data processing, as well as significantly reducing the delivery time for response status.
- Leveraged Amazon Web Services (AWS), including Lambda functions, EC2 clusters, DynamoDB tables, MongoDB tables, SQS, Kinesis, RDS, Snowflake, and Athena, optimizing resource utilization and achieving about 5% reduction in infrastructure costs.
- Implemented logging frameworks such as Log4J, Slf4j, Elastic-search (Kibana), AWS CloudWatch, and Splunk to monitor logging events, ensuring proactive issue detection and reducing system downtime by about 7%.
- Successfully executed weekly releases and integrated new features following continuous integration and TDD/ATDD practices in an agile environment, resulting in a 15% improvement in release cycle time and increased customer satisfaction.
- Implemented JUnit testing framework to write comprehensive unit tests, integration tests, and functional tests, achieving a 90% test coverage rate and reducing the occurrence of critical defects by 20%.
- Developed an automated deployment pipeline using Jenkins jobs and Maven builds, enabling seamless and efficient software deployments, reducing deployment time by 40%.
- Collaborated with Sonarqube to identify and fix code issues, resulting in an improvement in code quality and adherence to coding standards.
- Conducted thorough code reviews for all new enhancements and maintenance work, ensuring adherence to best practices and maintaining high code quality.
- Provided accurate and formal estimates of effort to satisfy requirements during sprint planning, facilitating effective project planning and resource allocation.

- Collaborated with technical architects to establish and enforce best practices in coding and development within the team, resulting in improved code quality, consistency, and knowledge sharing.

Express Scripts, New Jersey — *Lead Developer*

APRIL 2018 - FEBRUARY 2020

- Led the development of a Comprehensive Pharmacy Platform that utilized multiple micro services to seamlessly manage all aspects of the customer journey, starting from their initial website login to the final delivery of products.
- Developed RESTful web services using Spring Boot in a microservices environment, leveraging Java streams and lambdas to enhance performance and maintainability.
- Built and implemented a robust continuous integration pipeline using build tools like Jenkins, resulting in a reduction in deployment time and improved team productivity.
- Developed automated builds for deployment in PCF workspace, achieving a reduction in manual deployment effort and ensuring accurate and efficient deployment of software components.
- Utilized LaunchDarkly feature to enable continuous deployment and integration capabilities, resulting in a significant improvement in efficiency, reducing time to market by X% and enabling the deployment of X% more features to production
- Translated architectural designs into software components and created comprehensive documentation, facilitating seamless knowledge transfer and ensuring alignment with approved designs.
- Implemented comprehensive test cases using frameworks like JUnit and Mockito, resulting in a reduction in critical defects and improved software reliability.
- Utilized code coverage tools like SonarQube and Jacoco to ensure code standards and achieve a code coverage rate of 95%, reducing the likelihood of undetected issues in production.
- Successfully performed weekly releases and integrated new features following continuous integration and TDD practices in an agile environment, resulting in a about 20% reduction in time-to-market for new features.
- Implemented logging frameworks like Log4J, Slf4j, Elasticsearch (Kibana), and AWS CloudWatch to effectively monitor logging events, leading to improved system troubleshooting and enhanced performance monitoring.
- Created and maintained documentation on the internal architecture of the system, ensuring easy access to information for team members and enabling efficient onboarding of new team members.
- Collaborated with other team technical architects to establish best practices in coding and development across microservices, resulting in improved code quality, consistency, and scalability.
- Achieved a reduction in deployment time by implementing a robust continuous integration pipeline.
- Reduced manual deployment effort through the development of automated builds for PCF workspace.

Revenue Conduit, Ohio — *Senior Developer*

JUNE 2016 - APRIL 2018

- Led the development of RESTful web services and APIs in a microservices environment using Spring Boot and Play Framework, resulting in enhanced scalability and flexibility of the application.
- Utilized the infrastructure deployment framework "Serverless" to create AWS Lambda functions, EC2 clusters, DynamoDB tables, SQS, CloudWatch log aggregation subscription filters, and API Gateway endpoints, optimizing resource utilization and ensuring high availability of services.
- Designed, architected, and deployed Kafka clusters, ensuring the continuous operation of the analytics platform and enabling real-time data processing and analysis.
- Leveraged Event Driven Architecture implementation using various design patterns like pub/sub pattern, saga pattern, and event collaboration pattern.
- Successfully handled shopping cart events related to entities like ORDER, CHECKOUT, PRODUCT, and CATEGORY using AWS Lambdas, improving the overall user experience and increasing customer satisfaction.
- Leveraged DynamoDB as the database solution, ensuring efficient and reliable data storage and retrieval for the application.
- Implemented logging frameworks like Log4J, Slf4j, Elasticsearch (Kibana), and AWS CloudWatch, enabling comprehensive monitoring and analysis of logging events for efficient troubleshooting and performance optimization.
- Utilized Big Data technologies and tools such as HDFS, Spark, Kafka, Oozie, Sqoop, and MySQL to perform advanced analytics, including recency, frequency, monetary, and latency analysis on data, resulting in actionable insights and improved business decision-making.
- Successfully performed weekly releases and integrated new features following continuous integration and TDD/ATDD practices, ensuring timely delivery of enhancements and maintaining high software quality.
- Demonstrated proficiency in writing comprehensive unit tests and integration tests using JUnit and Mockito testing frameworks, achieving high code coverage and reducing the occurrence of software defects.
- Maintained code quality standards by utilizing code coverage standards like Jacoco, ensuring that software development adheres to industry best practices.
- Implemented Pact broker test cases to establish common agreements between microservices, enabling seamless integration and preventing errors, resulting in enhanced fault tolerance and reliability of the system.
- Administered and maintained Big Data applications in Amazon EC2 clusters, ensuring smooth operation and optimal performance of the system.
- Actively utilized version control systems like Git and GitHub on a daily basis, facilitating efficient collaboration and version management among the development team.

Cyient Insights, Ohio — *Data Science Engineer*

JANUARY 2016 - MAY 2016

- Developed and implemented a machine learning platform that resulted in improved data analysis capabilities for the company, enhancing decision-making processes and providing

valuable insights for clients.
- Successfully delivered visually compelling data visualizations using Tableau, effectively communicating complex data patterns and trends to clients, resulting in increased client satisfaction and better-informed decision-making.
- Received appreciation for extensively conducting research activities to architect a machine learning platform for the company, showcasing a strong commitment to innovation and exploring new technologies.
- Utilized tools like Alteryx and LavaStorm, implementing automation activities to perform data analysis efficiently and effectively.
- Investigated, processed, and modeled data, showcasing exceptional analytical skills and the ability to deliver visualized results to clients, helping them understand the functionalities of the data.
- Utilized Microsoft Azure Machine Learning Studio to apply predictive analytic algorithms, demonstrating proficiency in leveraging cloud-based technologies for advanced data analysis.
- Integrated data into analytic tools using R, Java, and Python, showcasing versatility in utilizing different programming languages for seamless data integration and analysis. Tableau was extensively used to create visually appealing data visualizations for clients.
- Successfully prepared proof of concepts by coding and experimenting with different sets of algorithms on available data, resulting in improved results and enhanced client satisfaction.
- Engaged in discussions with clients to gather and understand their business requirements, displaying excellent communication skills and the ability to effectively translate client needs into actionable user stories.
- Utilized Jira story boards to define epic cards and skillfully subdivided them into smaller, manageable stories, facilitating better project organization and team collaboration.
- Demonstrated proficiency in writing comprehensive unit tests and integration tests using JUnit and Mockito testing frameworks, ensuring the reliability and robustness of the software solution.
- Implemented code coverage standards like Jacoco, ensuring adherence to quality standards and maintaining high code quality throughout the development process.
- Collaborated with developers to estimate story points and actively contributed to writing Gherkin stories for the defined cards, streamlining project planning and execution.

Strong Basics, Ohio — *Systems Engineer*

MAY 2015 - DECEMBER 2015

- Actively participated in Design sprint and sprint planning discussions, contributing to the analysis of project specifications.
- Collaborated in 3 amigos meetings to gain a deep understanding of technical requirements, demonstrating excellent teamwork and effective communication skills.
- Developed REST-based API endpoints to handle incoming requests and successfully process data. Received positive feedback for delivering high-quality and efficient code.
- Acquired valuable experience in working with Java web services, Spring IOC Container, Hibernate, DB2, Maven, and microservices. Effectively utilized these technologies to enhance project functionalities.

- Investigated and processed data, performing modeling and visualization tasks to present results to clients. Recognized for the ability to effectively communicate complex technical concepts to non-technical stakeholders.
- Engaged in pair programming sessions with senior developers and architects, benefiting from code reviews and receiving valuable feedback on coding practices and design.
- Demonstrated proficiency in using the Junit testing framework to write comprehensive unit tests, integration tests, and user acceptance tests. Achieved high test coverage and identified and resolved critical issues early in the development cycle.
- Followed a TDD/BDD approach for software development, resulting in improved code quality, better maintainability, and faster debugging.
- Engaged in frequent discussions with clients to gather and understand their business requirements. Appreciated for the ability to effectively translate client needs into user stories, ensuring alignment between technical development and business objectives.
- Utilized Jira story boards to define epic cards and successfully subdivided them into smaller, actionable user stories, contributing to better project organization and improved team productivity.

Computer Sciences Corporation, India — *Systems Engineer*

AUGUST 2012 - SEPTEMBER 2014

- Developed a Security tool that successfully disentangled customized settings on Windows servers present in the CSC, resulting in a 98% reduction in configuration errors and improved system stability.
- Led the development and deployment of templates on Windows servers, streamlining the provisioning process for virtual machines. This resulted in a decrease in deployment time and increased efficiency for clients using Windows servers in CSC.
- Standardized the Windows Operating environment by customizing the Vanilla Operating system provided by Windows, leading to a reduction in compatibility issues and improved system performance.
- Implemented load balancing techniques on Windows servers, optimizing resource allocation and enhancing system reliability which resulted in an improvement in server response time and increased client satisfaction.
- Provided exceptional support to clients regarding hardware catalog issues, collaborating with vendors including HP, IBM, Dell, and Cisco. Achieved a 95% customer satisfaction rating based on timely resolution of hardware-related issues and effective vendor coordination.
- Designed and maintained the Hardware Catalog, offering tailored solutions to major clients such as UTC, UNUM, and Zurich. Successfully implemented cost-saving measures resulting in a reduction in hardware procurement expenses for clients

EDUCATION

★ **University Of Akron, Ohio** — *Management Information Systems* **2014 - 2016**
★ **IIM Calcutta -** *General Management* **2012 - 2013**
★ **Andhra University, India** — *Bachelor Of Technology* **2008 - 2012**

NON - PROFIT AFFILIATIONS

- ★ TATA Jagriti Yatra 2014 - 21 - Achieved sponsorship level 02 from Google
- ★ Umang Foundation 2013-14 - Organized a Mega Competition among 50000 students across more than 400 schools in the city of Mumbai, India
- ★ My Textbook 2009-12 - Led a project which aimed to cover the textbook under supply in the government schools across Visakhapatnam, India

BITBUCKET: bitbucket.org/kartheekvadlamani/

GITHUB LINK: github.com/kv36

LINKEDIN: linkedin.com/in/kartheek-vadlamani-a5a43651/