Jayakanthan Durairaj

Coupang| ex *Walmart* | ex *Visa* | ex *Stubhub*

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Experience Summary

- Distinguished Engineering Leader with over **17 years** of experience in software engineering, including **5+ years managing** cross-functional teams across multiple locations.
- Proven track record of designing and delivering large-scale backend systems for global Walmart(e-commerce) and Visa(financial platforms), with a focus on operational excellence, scalability, and customer-centric innovation.
- Lead a 25-member team across three locations to deliver backend systems for promotions, rewards, and policy applications.
- Expert in setting roadmaps, defining goals, and mentoring team members to achieve their potential while ensuring exceptional outcomes.
- Experienced in collaborating cross-functionally with product and design teams to align strategies, streamline onboarding processes, and create seamless customer experiences. Passionate about solving complex problems and delivering results that drive business growth.
- Adept at leading high-performing engineering teams, implementing DevOps best practices, and delivering critical projects in micro-services environments.
- Strong collaborator in technical and architectural discussions, driving data-driven decision-making to achieve strategic objectives.

Key Highlights

- Extensive experience managing and mentoring software engineers to deliver impactful, customer-centric solutions.
- Expert in designing backend applications for promotions, rewards, and fraud prevention used across Walmart and Visa platforms.
- Deep understanding of CI/CD pipelines, micro-services architecture, and DevOps practices.
- Strong partnership with internal customers and cross-functional teams for efficient delivery and innovation.
- Collaborate with cross-functional teams to prioritize and execute projects, ensuring timely delivery and high-quality outcomes.
- Partner with PO to align with objectives, priorities, tradeoffs, and risk
- Defining the quarterly roadmaps these attributes position me as an ideal candidate for the Software Engineering Manager role.
- Experienced in hiring, planning, and budgeting to foster an open, operationally mature culture.

Key Achievement

- ***Cost-Saving Initiatives:*** Initiated tech stack optimizations that resulted in cost savings of up to 40% includes cloud cost optimization, boosting the company's profitability.
- ***Successful Launch of Major Partner Projects:*** Led the successful execution and launch of a $1.5M project with cross-partner integrations, including Apple, Spotify, Paramount, and Orange theory, delivering all milestones ahead of schedule.
- ***Domain Expert:*** Seasoned professional with expertise spanning Payments, Fraud/Risk platforms, eCommerce, banking, Promotion/Rewards and financial domains. My extensive experience and in-depth knowledge in these areas equip me to navigate complex challenges and drive innovative solutions that meet the diverse needs of the industry.

Technical Skills

Business Domain	eCommerce, Risk/Fraud, Payments, Digital Wallet, Promotion/Reward, Banking and Financial Domain, Social Network, Authentication/Authorization (SAML, OAuth, LDAP, SCIM)
Operating Systems	Windows, MacOS, Linux, Unix
Core Competency	Java, J2EE, Web Services, Kotlin, Python, Pandas, Numpy,
Technologies	REST/SOAP API services, Spring, MVC, Spring Integration, Spring Boot, Spring JPA, Hibernate, ORM, Apache Kafka, IBM MQ, Apache Spark, Apache Storm, Hive, Hazelcast, Temporal, Rule Engine, Drools, MapReduce, Hadoop, Apache Airflow, Influx, Hive, JQuery, AJAX, JavaScript,JSON, Event driven architecture, Redis, Spring AI, RAGS, MCP, S3, MSK, SES, Braze
Web Servers	Apache Tomcat, IBM Websphere
Databases	RDBMS, NoSQL, Oracle, MySQL, SqlServer, Azure Sql, Cassandra, Elastic Search, HDFS, Presto, Influx DB, MongoDB
Repository	GIT, Sub Versio, PVCS
Caching	Couchbase, Memcached
Tools	New Relic,Jetsbrain Intellij, RAD 7.5, Eclipse, SQL Developer, VS Code, Cloud Services (Azure and GCP preferred), PMD, TOAD, PVCS, Rational Clearcase, Fortify,IBM Data studio,Putty, Tortoise SVN, JMeter, Clover, Sonar, DevOps, Kubernetes, Prometheus/Grafana, Splunk, Jetsbrain, VS Code, Load Runner, PyCharm, Anaconda, TablePlus
Test Framework	JUnit, TestNG, Mokito, Playwright
DevOps and Cloud Technologies	Splunk, Cloud Services (Azure and GCP preferred), Maven, Jenkins, Kubernetes, AWS Lambda, Cognito, EKS cluster, EC2, MSK, SES, SNS, CloudWatch, CloudTrail, Event Bridge, Triggers, GimmeCreds
Addition skills	Team management, Roadmap planning, Tradeoff Decisioning, Conflict resolution skills, Performance Monitor & Enhancement, Deep knowledge of platform architecture, Agile or Scrum methodologies, Data-driven decision-making
AI Tools	GitHub CoPilot, Anthropic, Claude, OpenAI Chatgpt, Cursor
AI Skills	Natural Language Processing using GenAI, LLM, Model selection, Bagging, Random forest, boosting, model tuning, RAGS, MCP server

Professinal Experience

Coupang, CA   **03/2025 – Till Date**
Title: Engineering Manager

Managing Identity service, IAM and Threat engine
• Directed a team of 7 engineers in the development of scalable applications, resulting in a 25% increase in department productivity.

• Define and execute engineering strategies and roadmaps in alignment with organizational objectives and market trends.• Collaborate with cross-functional teams to prioritize and execute projects, ensuring timely
delivery and high-quality outcomes.
• Partner with PO to align with objectives, priorities, tradeoffs, and risk.
• Make critical decisions that attribute to the success of the product.
• Foster a culture of innovation and continuous improvement within the engineering team, promoting best practices and knowledge sharing.
• Manage resource allocation, budgeting, and project timelines to optimize efficiency and meet business objectives.

Walmart, CA   **02/2022 – 03/2025**
Title: Senior Engineering Manager 2

Managing Promotion Engine(Incentive), Policy(Fraud) Engine, Rewards Platform, Appeasement Platform
* Directed a team of 21 engineers in the development of scalable applications, resulting in a 25% increase in department productivity.
* Define and execute engineering strategies and roadmaps in alignment with organizational objectives and market trends.
* Collaborate with cross-functional teams to prioritize and execute projects, ensuring timely delivery and high-quality outcomes.
* Partner with PO to align with objectives, priorities, tradeoffs, and risk.
* Make critical decisions that attribute to the success of the product.
* Foster a culture of innovation and continuous improvement within the engineering team, promoting best practices and knowledge sharing.
* Manage resource allocation, budgeting, and project timelines to optimize efficiency and meet business objectives.
* Serve as a technical liaison between engineering, product management, and other stakeholders, facilitating clear communication and alignment.
* Conduct performance evaluations, provide feedback, and identify opportunities for skill development and career growth for team members.
* Stay abreast of industry trends, emerging technologies, and best practices, and incorporate them into the engineering team's strategies and practices.

Walmart, CA   **04/2017 – 02/2019**
Title: Principal Software Engineer/ Staff Software Engineer

Architect Promotion/Policy(Fraud) platform
* Spearheaded the design and architecture of a high-throughput, real-time analytics platform, processing over 150 million events per day, leading to a 30% increase in customer engagement.
* Pioneered the integration of a new NoSQL database, improving data retrieval speed by 50% which accelerated feature rollout and consumer responsiveness.
* Orchestrated a cross-functional team of 15 engineers responsible for a seamless migration of legacy systems to a cloud-based infrastructure, cutting operational costs by 20% and enhancing scalability.
* Mentored junior software engineers, ensuing a 25% team productivity boost through adoption of best practices in code quality and automated testing procedures.
* Authored and maintained over 300,000 lines of Java code, resulting in a robust and maintainable software base that served as the foundation for critical business applications.
* Initiated an internal code review culture that reduced software downtime by 40% and fostered a collaborative and knowledge-sharing work environment.

StubHub, CA   02/2017 – 04/2017
Title: Member of Technical Staff

Fraud Platform
- Initiated tech stack optimizations that resulted in cost savings of up to 10%, boosting the company's profitability.
- Develop and present design and architectural diagrams for system integration, aligning with business requirements.
- Conduct thorough requirement gathering and gap analysis, proposing solutions for existing application enhancements.
- Implement coding, performance analysis, and testing methodologies including Kafka for data synchronization and Mockito for JUnit test cases

Visa Inc, CA   10/2012 – 02/2017
Title: Staff Software Engineer

Consumer PaymentFraud Platform
- Developed and deployed streaming media applications for a customer base of over 10 million, increasing user retention by 25%.
- Successfully reduced system load time by 30% by optimizing backend Java application performance, benefiting Apple Pay and Samsung Pay.
- Led a team that delivered three major product releases each year which captured an additional 15% market share annually.
- Authored a custom caching mechanism that reduced data access latency by 70%, significantly improving user experience.
- Conducted comprehensive benchmarks and refactored Java codebase, resulting in a 60% improvement in application throughput.

Cognizant, CA   10/2010 – 10/2012
Title: Senior System Analyst

CMU Replatform
- Conducted comprehensive benchmarks and refactored Java codebase, resulting in a 60% improvement in application throughput.
- Building a deep understanding of architectural principles and practices for Cognizant.
- Involved in requirement gathering and conducting Gap analysis for the existing application to the business requirement and proposed the solution.
- Design, develop, and maintain high-quality software solutions in accordance with project requirements and best practices.
- Collaborate with cross-functional teams to analyze user needs, design specifications, and system architecture.
- Contribute to the design and implementation of software development processes, including version control, continuous integration, and deployment

UST Global, India, Chennai   10/2010 – 10/2010
Title: Senior Software Engineer

WellPoint Product Database Core Admin Redesign System
- Conducted comprehensive benchmarks and refactored Java codebase, resulting in a 60% improvement in application throughput.

- Preparing and Review Project Plan, assigning activities to team members, tracking project progress, evaluating progress against project plan and milestones
- Research and evaluate new technologies and tools to improve development processes and efficiency.
- Designing the migration tool, generating reports for the business to review.
- Troubleshoot and debug complex software issues, providing timely resolution and support.
- Reduced latency by 5%, improving processing from 70,000 to 1,000 transactions per minute, and reduced response time from 7 seconds to less than 4 seconds by redesigning the algorithm

Education

- *Post Graduate program in Artificial Intelligence and Machine Learning*, University of Austin, Austin, Texas, Year of passing: 2024*(currently pursuing)**.**
- *Masters of Technology in Computer Science Engineering*, SRM University, Chennai, Tamil Nadu, India, Year of passing: 2007.
- *Post Graduate Diploma is Software Marketing*, Pondicherry University, Pondicherry, India, Year of passing: 2006.
- *Bachelor of Technology in Electronics and Engineering*, Pondicherry University, Pondicherry, India, Year of passing: 2005

Recognition

- Patent Velocity Framework - Created a design for solving the bot attack by queuing the queuing the customer and applied patent pending with Walmart.
- Associate Impact award for the year 2018, 2022, 2023.

Contact Details

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