Yogesh Shrihari Wattamwar

(408) 637-8129 | yogesh.shrihari.wattamwar@gmail.com |LinkedIn | GitHub

---

CAREER SUMMARY

Engineering leader with 12+ years of experience building scalable, distributed platforms and data products, and 5+ years in leadership roles. Skilled in leading cross-functional teams to deliver complex software solutions, optimize performance, and integrate cutting-edge technologies like Large Language Models (LLMs) to enhance customer experiences and operational efficiency. Proven track record in cloud technologies, DevOps, microservices, automation, and data analytics, with expertise in aligning technical execution with business goals and fostering a culture of innovation and excellence.

CORE STRENGTHS

- **Leadership:** People and Org Management, Project Management, Mentoring Managers and ICs, Cross-collaboration, Budgeting and Resource Management, Stakeholder Alignment, DEI Initiatives, Process Improvement, Quality Assurance, Tech Lead, Hiring, Performance Management, Agile Leadership, Design, Architecture, and Strategic Roadmap Planning.
- **Technical Execution:** Distributed Systems, Microservices Architecture, Rust, Java, Python, AWS, Azure, Spring Boot, CI/CD, Kubernetes
- **Cross-Functional Collaboration:** Product Strategy, QA/DevOps Leadership, Go-to-Market Alignment, Roadmap Delivery
- **Innovation & AI Integration:** GenAI, LLM Orchestration, Bedrock, Claude, LangChain, RAG Pipelines, Azure OpenAI, Vector DBs
- **Soft Skills:** Analyzing Complex Situations, Effective Stakeholder Communication, Conflict Resolution, Mentoring and Coaching junior engineers, and aligning technical goals with business objectives.

PROFESSIONAL ACCOMPLISHMENTS

- **Led the mid-size Agreement Management Service** team, enabling entitlement services for 25+ partner systems, supporting 100M API calls daily, and driving $6B in annual revenue for VISA.
- **Directed the design and integration of LLMs** into Alexa+ on FireTV using Nova Sonic, Bedrock agents, and RAG, enhancing voice interactions for 100M+ users and reducing response times by 30% via optimized routing, caching, and rate limiting.
- **Led the migration of voice service at Amazon from Java to RUST**, improving system performance by 30%, reducing memory consumption by 40% and scaling to handle 200M+ concurrent transactions.
- **Spearheaded the Over-the-Air (OTA) release strategy for Fire TV devices,** achieving 99.9% uptime and ensuring global reliability for 50M devices through optimized workflows and SOPs.
- **Orchestrated redesign and migration of metrics processing to a decentralized system**, saving $150M in costs, driving revenue growth, and enabling a team-based ownership model for production monitoring.
- **Earned special recognition and bonuses** for driving impactful results, demonstrating exceptional leadership and technical expertise.

WORK HISTORY

Amazon, **Senior Software Engineer - Manager**, Alexa Devices (June 2022 - Present) | Team Size: 9 (1 SDM, 1 L6 SDE, 2 L5, 2 L4 SDEs + SDM's 3 reports)
- **Led a hybrid engineering org** including a Software Development Manager and senior ICs; mentored managers and technical leads to scale delivery and promote ownership culture.
- **Directed the development of a parallel agent execution engine** with context-isolated memory (DynamoDB), Titan-based intent gating, Lambda-based function calling, and Redis caching to orchestrate complex voice interactions across third-party apps like Uber and OpenTable.
- **Integrated Bedrock Guardrails for safety and streaming response generation**, improving trust and responsiveness, and drove end-to-end optimization of routing, caching, and rate limiting strategies, reducing perceived latency by 40% and improving overall response time by 30% for all Alexa+ users.
- **Resolved a long-standing performance issue** by leading cross-functional collaboration, improving system reliability by 20%, and reducing CPU/memory usage issues by 28% through innovative performance testing frameworks.
- **Led deployment of AWS-based monitoring solutions**, reducing analysis time by 35% and improving system responsiveness, while guiding partner teams through integration.

- **Spearheaded the design and migration of FireTV Ad-click decentralized metrics service**, improving cost efficiency and enabling team ownership through cross-functional collaboration, saving $150M by eliminating central bottlenecks.
- **Directed and optimized the OTA release process** for Fire TV devices, establishing clear SOPs and achieving 99.9% uptime, reducing downtime by 25% across 150M+ devices globally.
- **Led cross-functional collaboration** to align technical roadmaps with business goals, reducing project delays by 30% and improving time-to-market by one month.
- **Directed multi-quarter migration** of Alexa voice service from Java to Rust, reducing memory usage by 40% and improving performance by 30%, supporting 200M+ concurrent requests.
- **Managed cross-team delivery of 15+ projects** spanning voice services, FireTV ad-clicks metrics processing, and GenAI integration; enabled scalable delivery by aligning SDM-owned subteams to product verticals with quarterly execution OKRs.
- **Mentored SDMs, QAMs, and Sr. SDEs**, improved productivity 2x, reduced onboarding time by 50%, and scaled system design reviews across sub-teams by conducting performance calibrations, career growth planning, and skip-level 1:1s.
- **Established a shared technical vision** across SDM-led subteams via cross-team architecture reviews, incident postmortems, and tech-debt paydown planning, reducing incident MTTR by 35%.

Visa Inc., Sr Software Engineering Manager, Prepaid & Visa Innovation (May 2019 - June 2022) | Team Size: 7 (1 Lead, 1 Sr. Staff, 2 Staff, 1 Sr, 2 SWE)
- **Revamped transaction authorization process** through the design of scalable microservices supporting ISO 20022 transactions format; partnered cross-functionally with data analytics and QA teams, reducing 3P onboarding time from 4+ months to 5 weeks, while evolving the platform into a distributed, CI/CD-enabled system supporting ~100K TPS.
- **Orchestrated organizational scaling,** spinning off three independent teams from Agreement Management Services, hiring and mentoring managers and senior engineers, and growing the org from 5 to 24 in 9 months, and defined a 3-year tech and product roadmap focused on enterprise-grade solutions for Visa's prepaid card services. Championed career development through internal promotions and leadership transitions.
- **Mentored and grew** 3+ first-line managers into effective leaders; built a leadership pipeline through succession planning and structured coaching frameworks.
- Drove org-wide planning and execution for migration of 100K+ customer agreements across 7M+ entities, ensuring zero downtime and SLA adherence.
- **Directed the successful launch of an Agreement Management Service across 7 countries** that supported upwards of 100M+ daily API calls, driving significant revenue growth, and ensuring seamless production deployments with continuous live site monitoring.
- **Led 5+ Prepaid business releases**, delivering 100+ features and improvements with cross-functional teams; aligned execution with GTM priorities and achieved 25% YoY revenue growth.
- **Directed client onboarding** for Visa Net and VDP, reducing onboarding time and improving client satisfaction by creating detailed roadmaps, gathering requirements, and providing API consultation for seamless integration.
- **Facilitated alignment** across functions by introducing joint planning reviews during QBR/MBR/WBRs, shared OKRs, and cross-discipline retrospectives, resulting in a 40% improvement in delivery predictability and stakeholder satisfaction.
- **Fostered a high-performing, inclusive team culture**, boosting code quality and reducing pre-release bugs by 60% through mentorship programs, strategic hiring, and structured feedback loops.
- **Spearheaded the organization's Innovation Forum**, creating a structured pipeline to transform next-gen ideas into actionable outcomes, driving long-term business and technical impact.

Visa Inc, Staff Software Engineer, Prepaid cards (May 2016 – May 2019)
- **Led Agile ceremonies** including daily scrums, sprint planning, and release planning, while leveraging tools like JIRA and Kanban boards to streamline workflows and improve project tracking efficiency.
- **Engineered scalable microservices architecture** with Spring Boot, Java, and REST APIs for Visa Net, VDP, and charge calculation services, reducing transaction processing times by over 60% and ensuring data integrity across distributed databases with PL/SQL scripting.
- **Led the integration of machine learning algorithms** with SageMaker Studio and Python-based Lambda functions, enhancing data accuracy by 40% and saving 25 hours per week in operational workflows.
- **Automated release creation and deployment pipelines**, leveraging CI/CD tools, test-driven development (TDD), and integration testing frameworks, while implementing Appium for real-time phone simulation in web app testing and validating WCAG components for accessibility compliance.

Scalable Systems Research Labs, Software Engineer 2 (February 2016 – May 2016)
- **Optimized databases** with T-SQL and PL/SQL, **analyzed real-time data** using Apache Spark, and **created D3.js visualizations** with an intuitive UI/UX for a seamless user experience.

Accenture Services, Software Engineering Analyst (March 2011 – January 2014)

- **Implemented SSO for internal and partner apps**, enhancing security and accessibility, and redesigned MVC front-end logic to mitigate vulnerabilities, reducing attempted hacks by 24%.
- **Revamped data analysis functionalities** by designing and enhancing SSAS cubes within SQL Server, leading to a 30% increase in speed of retrieving insights for business decision-making processes.

EDUCATION

The San Jose State University, MS in Computer Science

The MGM College of Engineering, BE in Computer Science

CERTIFICATIONS AND RECOGNITION

- Special recognition and bonuses at Amazon and Visa for technical leadership and business impact
- Founding contributor to Visa's Innovation Forum, enabling idea-to-product pipelines

TECHNICAL SKILLS

- **Programming and Technologies:** Java (Core, J2EE), Python, JavaScript (Node.js, React), Spring (Boot/MVC/Security/Data), Hibernate, Microservices architecture, RESTful APIs, GraphQL, AWS ecosystem (EC2, Lambda, IAM, EMR, SNS, KMS), OAuth2, SAML, Azure, Docker, Kubernetes, Jenkins, RabbitMQ, Kafka, and Maven/Gradle.
- **Software Design and Development:** Object-Oriented Design (OOD), SOLID principles, Design Patterns, Domain Driven Design (DDD), Event-Driven Architecture, and clean code practices.
- **Databases:** MongoDB, Cassandra, Oracle, Sybase, MySQL, MS SQL Server, Redis, Elasticsearch, PostgreSQL, RDS, S3, Aurora, Neptune, DynamoDB.
- **Performance Optimization and Scalability:** High-throughput/low-latency systems, multi-threaded programming, JVM tuning, database query optimization, and load balancing.
- **Cloud, DevOps Testing and Automation:** JUnit, Mockito, TestNG, Selenium, REST Assured, CI/CD pipeline implementation, and integration testing frameworks, AWS ecosystem, Kubernetes.
- **Observability and Monitoring:** AWS CloudWatch, Grafana, Splunk, New Relic, AWS QuickSight, and Prometheus.
- **Version Control and Collaboration:** Git, Bitbucket, GitHub, Jira, Quip, Confluence, MS Office.
- **Customer Experience & AI:** AI-driven Support Features, Amazon Bedrock, Nova Sonic, LangChain, Guardrails, Azure OpenAI Integration, Data Pipeline Optimization, Validation Rule Implementation, Analytics for Business Insights