

Eklavya Shivaji Ghodake

Senior Software Engineer | Full-Stack & Distributed Systems

eklavayaghodake@gmail.com | +91 7721901494 | Maharashtra, India

[LinkedIn](#) | [GitHub](#)

PROFESSIONAL SUMMARY

Full-Stack Software Engineer with ~3 years of progressive experience building high-throughput backend microservices, real-time event-driven architectures, and responsive web platforms. Strong hands-on expertise across Core Java, Spring Boot, Node.js, React, TypeScript, Python, Redis, Docker, and MongoDB, designing low-latency REST/WebSocket APIs and optimizing distributed data pipelines. Proven track record slashing cloud infrastructure storage costs by 70%, building high-availability disaster recovery systems with zero data loss, and deploying production-grade distributed architectures. Promoted twice from SDE I to SDE II and Software R&D Lead/Manager in recognition of technical architecture, system design, and high-impact delivery.

CORE TECHNICAL SKILLS

- **Languages:** Java (Core Java), JavaScript, TypeScript, Python, Go, C#, SQL
- **Backend & Distributed Systems:** Spring Boot, Node.js, Express.js, Microservices Architecture, RESTful APIs, WebSockets, Event-Driven Architecture, Redis (Caching & Pub/Sub)
- **Frontend & Web:** React, Vite, Redux / State Management, TypeScript, JavaScript (ES6+), HTML5, CSS3, Real-Time Interactive Dashboards
- **Databases & Data Engineering:** MongoDB (Replica Sets, Aggregation Pipelines, Archival Recovery), MySQL, PostgreSQL, Query Optimization, High-Throughput Ingestion
- **Cloud & DevOps:** Docker, Docker Compose, Private Container Registry, AWS, Linux, Git, GitHub, CI/CD Workflows
- **System Design & Protocols:** High-Throughput Streaming, MQTT, Web Sockets, HTTP/HTTPS, Asynchronous Processing, Fault Tolerance, Zero-Downtime Migration
- **Applied AI & Modern Tech:** Retrieval-Augmented Generation (RAG), Ollama, Local LLMs, Semantic Vector Search, Prompt Engineering

PROFESSIONAL EXPERIENCE

[Yantramedhavi India Private Ltd. \(formerly Wathare Infotech Solutions / MachineWise\) | Aug 2023 – Present](#)

Software R&D Lead / Manager | Sep 2026 – Present

- **Technical Architecture & Delivery:** Direct end-to-end software architecture and roadmap across high-throughput backend microservices, real-time streaming pipelines, and full-stack web platforms.
- **Engineering Leadership & Mentorship:** Lead and mentor engineering teams across backend and frontend development, establishing engineering standards, automated workflows, and rigorous code reviews to maintain zero critical production regressions.
- **Scalability & System Modernization:** Drive architectural roadmaps transitioning legacy monolithic services into decoupled, event-driven microservices to improve system throughput, maintainability, and deployment speed.
- **Stakeholder & Client Alignment:** Collaborate with enterprise clients and product leadership to translate complex business workflows into scalable REST APIs, WebSocket streaming endpoints, and responsive user interfaces.
- **Operational Governance & Resiliency:** Champion root-cause analysis (RCA), production problem-solving, and operational SLAs, ensuring 99.9%+ platform uptime across enterprise distributed deployments.

Software Development Engineer II (SDE 2) | Jan 2025 – Aug 2026

- **Database Optimization & 70% Cost Reduction:** Re-architected continuous time-series data storage into an event-driven (on-change) and aggregated model, slashing database storage consumption by over 70% while boosting query performance.
- **High Availability & Disaster Recovery:** Safeguarded mission-critical enterprise data by architecting daily archive-based backup and restoration pipelines across MongoDB replica sets, successfully recovering corrupted production clusters with zero data loss.
- **Real-Time Full-Stack Dashboards:** Built responsive web applications using React, Vite, and WebSockets, transforming continuous streaming data into real-time interactive analytics, charting, and actionable operational dashboards.
- **Enterprise ERP Integrations:** Designed secure RESTful integration APIs and webhook pipelines connecting real-time platform data with enterprise ERP systems, automating complex business workflows.
- **DevOps & Container Distribution:** Implemented an internal private Docker registry and automated container deployment workflows across on-premises and cloud environments, accelerating multi-environment image distribution.

Software Development Engineer I (SDE 1) | Aug 2023 – Dec 2024

- **High-Throughput Event Streaming:** Engineered high-concurrency event-driven microservices using Core Java, MQTT, Redis pub/sub, and optimized MongoDB schemas, processing thousands of real-time streaming events per second.
- **Low-Latency Protocol Services:** Developed high-performance device communication services and background daemons in Python and .NET (C#) for sub-second data acquisition, custom protocol normalization, and structured JSON serialization.
- **Edge Microservices & Event Correlation:** Built lightweight edge services using Python and MQTT deployed on Linux edge nodes, correlating distributed hardware events and downtime states in real time with centralized backends.
- **REST API & Core Backend Development:** Designed and implemented robust RESTful APIs, data validation schemas, and database query layers powering backend operations and telemetry ingestion pipelines.

KEY TECHNICAL PROJECTS

- **MQTT-GO:** High-performance, concurrent network monitoring and debugging platform engineered using Go (Golang) and React designed with an ultra-lightweight memory footprint under 100MB as an efficient, memory-optimized alternative to Electron-based tools like MQTTX.
- **Enterprise AI RAG Platform:** Full-stack on-premises Retrieval-Augmented Generation (RAG) system built with Python, Ollama, and local LLMs, enabling fast contextual semantic search and question-answering across complex technical documentation with zero external data egress.
- **CTQ-Extraction (AI Agent Skill):** Python, Multimodal LLMs, JSON Schema — Open-source AI agent skill extracting Critical-To-Quality (CTQ) parameters, verbatim tolerances, and 14 ASME Y14.5 / ISO 1101 GD&T symbols from engineering drawings into validated structured JSON; engineered cross-platform support across Claude Code, Antigravity, and Cursor.
- **use-shadcn (AI Agent Skill):** TypeScript, React, Tailwind CSS, shadcn/ui — Cross-platform AI agent skill enforcing Obsidian theme tokens, capsule ergonomics, and legacy UI refactoring patterns for shadcn/ui; architected canonical specifications with zero-duplication symlink workflows across major AI coding assistants.

INDUSTRY EXPOSURE & TECHNICAL PRESENTATIONS

- **IMTEX Bangalore (2026):** Delivered technical product architecture and live platform demonstrations of real-time data streaming systems to C-suite executives and plant heads, articulating scalability, system design, and operational ROI.
- **Maharashtra MSME Defence Expo (2024):** Presented real-time data streaming architectures, low-latency edge computing, and secure systems integration to defence-sector stakeholders and technical leaders.

EDUCATION & DOMAIN FOUNDATION

- **P.G. Diploma in Advanced Computing (DAC)** — IACSD, CDAC Pune | 2022–2023 | Grade A (77.88%)
- **B.E. Mechanical Engineering** — RMD Sinhgad College of Engineering | 2016–2021 | CGPA 7.29
- **Diploma Mechanical Engineering** — Walchand College of Engineering | 2013–2016 | 75.24%

LANGUAGES

English, Hindi, Marathi