

RAJU GOTTUMUKKALA

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Professional Summary

Software Engineer with 5 years of experience designing, building, and scaling enterprise-grade applications across fintech, payments, and consulting domains. Deliver high-availability backend systems, modern frontend interfaces, and cloud-native platforms supporting thousands of users and high-volume transactions. Strong expertise in Java, Spring Boot, React, Node.js, AWS, and Microservices, with hands-on experience automating CI/CD pipelines and improving system reliability. Involved in integrating AI/LLM-powered insights such as anomaly detection, workflow recommendations, and log summarization into production systems. Known for collaborating in Agile teams, improving delivery speed, and translating business requirements into scalable technical solutions.

Professional Experience

DXC Technology (Remote)

Software Engineer

May 2025 – Present

Plano, TX

- Built and scaled a **workflow management platform** using **Spring Boot, Node.js, and React**, deployed on **AWS Elastic Beanstalk and RDS**, improving delivery velocity by **30%**.
- Automated **subscription, billing, and transaction workflows** via **Stripe webhooks**, removing **40%** of manual operations and cutting support resolution time by **25%**.
- Improved **transaction success rates** by **5%** through optimized Stripe API flows and better **error handling and retry logic**, saving **~\$5K/month**.
- Integrated **AI-driven capabilities** using **LLM APIs (ChatGPT, Claude)** for workflow recommendations, anomaly summaries, and operational insights.
- Used **Cursor and AI-assisted coding tools** to accelerate feature development, refactoring, and test creation.
- Increased test coverage from **55% → 80%**, reducing production issues by **30%**.
- Containerized services with **Docker and Kubernetes**, and streamlined deployments with **GitHub Actions CI/CD**, cutting deployment time to **under 10 minutes**.
- Worked in **Agile sprints** with product and QA teams, delivering **100%** of committed features on time.

Fidelity National Information Services (FIS Global)

Software Engineer

Jun 2022 – Jul 2023

India

- Designed and scaled **payment processing systems** supporting **10,000+ global merchants**, maintaining **99.99% uptime** during peak loads.
- Delivered **20+ Spring Boot microservices** with optimized **transaction management, caching, and database queries**, reducing API latency by **25%** and supporting **30% YoY growth**.
- Architected cloud infrastructure using **AWS Lambda, S3, CloudWatch, and SNS** for event-driven processing and automated alerting, improving system observability and reducing incident response times by **35%**.
- Built **React and Material-UI components** with lazy loading and efficient state handling, improving frontend performance by **25%**.
- Orchestrated CI/CD pipelines using **Jenkins, Docker, AWS CodePipeline, Terraform**, enabling **50% faster releases** with safe rollbacks.
- Expanded automated testing coverage from **55% → 85%**, cutting post-release defects by **40%**.
- Authored API specs and system runbooks, reducing reliance on senior architects by **20%**.

KPMG

Software Developer

Apr 2019 – May 2022

India

- Developed internal **audit and compliance applications** using **Java, Spring Boot, Angular, and MySQL**, supporting **5,000+ enterprise users** across multiple business units with role-based access controls and audit logging.
- Built **secure REST APIs** with input validation, structured logging, and real-time monitoring dashboards, reducing integration issues by **15%** and improving debugging efficiency across distributed services.
- Implemented **RBAC, AES-256 encryption, and security hardening** measures, ensuring compliance with **ISO 27001 and GDPR** standards while passing internal and external security audits.
- Optimized complex SQL queries and refactored backend logic with indexing strategies, reducing report generation time from **12s → 4s** for financial compliance dashboards.
- Supported early **AI/analytics initiatives** by designing ETL pipelines, preparing structured datasets, and building rule-based insights for audit dashboards used by senior management.
- Implemented **Jenkins CI/CD pipelines** with automated testing gates and deployment scripts, reducing rollbacks by **10%** and freeing **5+ hours/week** for feature development.

Key Projects

VelocIDE - AI-Based Code Editor | [GitHub](#) | *React, Node.js, Docker, OAuth 2.0, gRPC*

Apr 2025

- Built production-ready web IDE integrating Google Gemini 3 Pro, Claude 4.5 Sonnet, and Llama 3 models with autonomous file management — LLMs create, delete, and modify entire codebases with 5ms response.
- Prepared 6-service Docker microservices architecture achieving sub-10ms response times (Auth: 6ms, AI Agent: 5ms, Compiler: 13ms) with 1ms file reads and 8ms writes for real-time workspace synchronization.
- Architected OAuth 2.0/JWT authentication supporting 20+ concurrent users with 6ms response times, 50MB memory footprint per service, and automated cleanup with rate limiting.

Resume Builder - Sandbox Support for Gemini LLM | [GitHub](#) | *Docker, Python, Alpine Linux*

Nov 2025

- Developed containerized platform enabling Gemini 2.5 Pro to autonomously compile files in isolated Docker sandboxes, solving the limitation that LLMs cannot natively execute code or generate binary files.
- Implemented secure autonomous execution with 15-category command blacklisting (fork bombs, privilege escalation, network exploits), 60-second timeouts, and iterative self-correction across up to 15 cycles.
- Built Docker isolation layer using Alpine Linux with non-root execution, environment detection, and bidirectional stdout/stderr streaming enabling Gemini to autonomously debug compilation failures without human intervention.

Open Source Contributions

Kubeflow Pipelines | *Contributor — PR #12593*

2025

- Fixed SDK limitation (#12555) preventing direct pipeline invocation with artifact inputs (Dataset, Model, Metrics), enabling local ML workflow testing for Kubeflow users.
- Authored changes across three SDK layers — type handling, validation logic, and orchestrator utilities — with URI security checks to prevent path traversal attacks.
- Authored 17 unit tests covering all artifact types, edge cases, and security scenarios; all tests passing with full backward compatibility maintained.

Technical Skills

Programming Languages: Java, Python, JavaScript, TypeScript

Frameworks & Libraries: Spring Boot, React, Node.js, Angular, Vue, Redux, GraphQL, Tailwind CSS

Cloud Platforms: AWS, GCP, Azure

Infrastructure & DevOps: Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, GitLab CI/CD, Nginx

Databases & Caching: PostgreSQL, MySQL, Oracle, Redis, Memcached, DuckDB, Kafka, Query Optimization

AI & LLM Integration: Google Gemini 3 Pro, Claude 4.5, Llama 3, Ollama, ML Pipelines, Cursor

APIs & Security: REST, SOAP, GraphQL, OAuth 2.0, JWT, RBAC, Secure API Design, Microservices Architecture

Monitoring & Testing: Prometheus, Grafana, JUnit, Mockito, Jest, Selenium

Methodologies: Agile/Scrum, Sprint Planning, TDD, Git

Education

University of Missouri–Kansas City (UMKC)

Aug 2023 – May 2025

Master of Science in Computer Science

Kansas City, MO