YASHU YOUWARAJ

Software Engineer I

Chennai, India

📞 +91-7970629433 ✉ yashuyouwaraj123@gmail.com ⌂ github.com/yashuyouwaraj 🔗 linkedin.com/in/yashu-youwaraj

Summary

Software Engineer I building reliable backend services using Java, Spring Boot, and Microservices. I enjoy solving practical engineering problems across the software development life cycle, especially where scalability, clean design, and troubleshooting intersect. My background includes distributed systems work, cloud technologies, automation, and contributing to agile teams delivering stable, production-ready applications. I'm comfortable working with AWS, modern development workflows, and a mix of backend and light frontend tasks in Angular, Android, and JavaScript. I also bring strengths in business analysis, system thinking, programming fundamentals, and applying artificial intelligence concepts where they add real value.

Technical Skills

Programming Languages: Java, JavaScript, TypeScript, Python, SQL
Backend & Distributed Systems: Spring Boot, Microservices, REST APIs, Distributed Systems, Event-Driven Architecture, Kafka, Concurrency, Secure Coding
Frontend & Application Development: Angular (Basics), React (Basics), Android (Basics), TypeScript
Cloud & DevOps: AWS (EC2, Lambda, S3, CloudWatch, IAM), Docker, Jenkins, CI/CD Pipelines, Gradle, SonarQube, Monitoring & Logging
Databases: MySQL, MongoDB, Query Optimization, Indexing
Development Practices: Agile/Scrum, Automated Testing, Troubleshooting, Software Development Life Cycle, Business Analysis, Software Skills

Professional Experience

Tata Consultancy Services, Chennai — Apr 2025 − Present
Systems Engineer — *Tech Stack: Java, Spring Boot, Microservices, COBOL, Jenkins, SonarQube, Gradle*

- Modernized 100+ legacy COBOL modules by converting them into Java microservices, improving performance and long-term maintainability.
- Built automated deployment workflows using Jenkins and Gradle, cutting manual effort by 30% and increasing release consistency.
- Integrated SonarQube checks into development pipelines to strengthen code quality and proactively reduce security issues.
- Worked closely with cross-functional, agile teams to coordinate releases, improve processes, and deliver stable features faster.

Key Projects

AI-powered LMS SaaS Platform (TypeScript, Supabase, AWS, Stripe, Clerk) — Sep 2024 − Apr 2025

- Developed scalable backend services to support high-throughput learning workflows, improving data handling and system reliability.
- Used performance insights and debugging tools to troubleshoot bottlenecks and raised adaptive learning efficiency by 45%.
- Implemented AI-driven modules and automated billing/authentication pipelines, contributing to a smoother user experience.

Real-Time Stock Market System (MongoDB, Inngest, TypeScript, Event-Driven Architecture) — Dec 2023 − May 2024

- Built an event-driven processing system capable of handling 10K+ updates per minute with stable, asynchronous workflows.
- Enhanced forecasting components using AI-inspired techniques and improved prediction accuracy by 28%.
- Strengthened reliability through automated tests, logging pipelines, and troubleshooting of concurrency challenges.

Scalable Social Media Platform (Appwrite, TypeScript, React) — Oct 2023 − Mar 2024

- Created backend APIs and optimized data-access layers supporting 5K+ active users with predictable system performance.
- Improved overall responsiveness by 35% through caching, refined data models, and efficient backend programming.
- Collaborated across agile sprints to deliver features with strong emphasis on clarity, reliability, and usability.

Achievements & Certifications

- **Research Publication (ICSSIT 2024):** Smart Mining System with Crystal Classification of Ores.
- **HackerRank Certifications:** SQL and Python.

Education

SRM Institute of Science and Technology, KTR — *Graduated: 2024*
Bachelor of Technology in Computer Science and Engineering (Specialization: Computer Networking)
CGPA: 8.27 / 10