

PROFESSIONAL EXPERIENCE

Software Engineer, University of Wisconsin-Milwaukee

Aug 2024 – Present

- Improved backend reliability by 25% to 50% through Java Multithreading, Batch Processing, Exception Handling, and third-party API integrations, reducing data synchronization delays by 30% across platforms.
- Designed microservices architecture with Spring Boot, Docker, and Kubernetes; automated CI/CD processes using Jenkins, reducing deployment times by 35%, downtime by 20%, and accommodating 30% more user traffic.
- Developed reusable components with Singleton and Observer patterns, ensured 95% plus test coverage using JUnit and Mockito, reducing production defects by 30%, and achieved a 95% project success rate through Agile collaboration.

Junior Software Engineer, Cognizant Technology Solutions

Nov 2022 – Aug 2023

- Engineered secure, high-performance payment gateway systems handling over 2 million daily transactions using Java, Spring Boot, RESTful, and SOAP-based APIs, achieving 99.99% uptime, SOA compliance, and reducing fraud rates by 15% through two-factor authentication (Email OTP).
- Enhanced backend performance by 20% through optimized data structures, multithreading, and integration of Singleton and Factory design patterns, streamlining real-time payment processing and cross-platform interoperability.
- Resolved 20+ critical frontend bugs in Angular, improved user experience, and automated CI/CD pipelines with Jenkins, maintained 85% test coverage using Jasmine, decreasing production defects by 30%.

Junior Software Engineer, Comau

Oct 2020 - Nov 2022

- Developed and deployed 20+ scalable Spring Boot applications and RESTful APIs, optimized Java based algorithms (Recursion, Backtracking, Breadth-First Search, Depth-First Search) and data structures, designed fault-tolerant backend services using RabbitMQ, JDBC, Multithreading, collectively boosting system scalability by 25% and messaging reliability by 30%.
- Collaborated with frontend teams to resolve performance bottlenecks, create reusable Angular components, and enhance user experience by reducing load times by 20% and development time by 15%.
- Automated CI/CD pipelines using Jenkins and Docker, integrated OPCDA and OPCUA servers for reliable real-time communication, applied scalable design patterns (Singleton and Factory) to reduce code redundancy by 15%, and monitored systems with Prometheus and Grafana, achieving 99.95% uptime.

EDUCATION

Master of Science, Computer Science, University of Wisconsin-Milwaukee

May 2025

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Software Development Lifecycle
- **Achievements:** Graduate Teaching Assistant, Awarded the Chancellor's Graduate Student Award.

PROJECT EXPERIENCE

CloudEduTrack: Accessible Online Quiz Platform

- Led the design and development of a voice-activated quiz platform using Angular and Spring Boot, significantly improving accessibility (95%) for visually and motor-impaired users.
- Increased user engagement by 40% by implementing adaptive UI themes and advanced speech recognition.
- Managed platform scalability and reliability by deploying services on AWS and Azure using Docker and Kubernetes.

IOT Web platform for Plant Control and Monitor

- Improved manufacturing efficiency by 40% through development of microservices-based MES platform with real-time monitoring using Java Spring Boot and REST APIs.
- Enhanced data storage efficiency by 25% through MongoDB and PostgreSQL integration.
- Facilitated seamless system integration by directly collaborating with customers, resolving 90% of issues during deployment

TECHNICAL SKILLS

- **Programming Languages:** Java, Python
- **Frameworks & Libraries:** Spring Boot, Flask, Angular, PyTorch
- **Cloud & DevOps:** AWS, Azure, Docker, Kubernetes, Jenkins, CI/CD
- **Databases & Messaging:** PostgreSQL, MongoDB, MySQL, Kafka, RabbitMQ
- **Monitoring & Observability:** Prometheus, Grafana
- **Testing & Development Practices:** REST APIs, Test-Driven Development (TDD), Git, GitHub, Agile Methodology

CERTIFICATIONS AND ACHIEVEMENTS

- API's and Microservices developer certification
- Building Scalable Java Microservices with Spring Boot and Spring Cloud certification.
- Certified Red Hat System Administrator (RHCSA)
- Introduction to Cyber Security Certification
- Star Player Award, Hackathon – Comau India Pvt Ltd