Karthik Gunturi

USA | +1-314-745-4951 | karthikgunturi1999@gmail.com | LinkedIn | GitHub | Portfolio

SUMMARY

Software Engineer with 3+ years of expertise in C, C++, Java, Spring Boot, and AWS, specializing in building scalable RESTful APIs and microservices. Proficient in Agile methodologies, CI/CD pipelines, and performance optimization, with a strong focus on system reliability and security. Passionate about delivering innovative solutions and contributing to cutting-edge projects.

EXPERIENCE

Enliven Technologies (Client: BMO – Bank of Montreal, USA) | *Software Engineer*   **Mar 2025 - Present**

Engineered the microservices-based supply chain system for BMO's operations teams, increasing throughput by 35% by implementing Java 17 services processing 1M+ API calls/day, enabling faster transaction processing and improving operational efficiency in the financial services domain.

- Drove backend security architecture for REST APIs powering 100K+ users, cutting unauthorized access by 50% via OAuth2 and JWT with Spring Security.
- Automated CI/CD pipelines across 3 environments using Jenkins and GitLab CI, cutting release times by 60% and eliminating manual steps.
- Led the on-call support process for 15 critical services, sustaining 99.9%+ uptime by resolving 100+ incidents with a 15-minute MTTR
- Implemented the TDD practice for 10+ service modules, improving code reliability by 30% by writing JUnit and Mockito tests achieving 85% coverage
- Delivered 20+ patch releases and resolved 100+ support tickets by collaborating with QA, DevOps, and product managers during agile sprints.
- Streamlined backend architecture by leading peer code reviews and design discussions, cutting developer onboarding time by 30% and improving code quality across 5+ services.
- Collaborated in Agile/Scrum workflows - including sprint planning, backlog grooming, task estimation, and daily stand-ups to deliver features on schedule and within scope.

Alyx Ai Labs Pvt Ltd (Client: Ruckus Networks, USA) | *Software Engineer*   **Jan 2020 - Dec 2022**

Optimized backend Java services with multithreading and robust error handling to boost Ruckus system uptime to 99.95% across 12,000+ devices, reducing incident response time by 30% and enhancing client satisfaction and revenue stability.

- Integrated Apache Kafka for event-driven architecture, reducing inter-service failures and cutting downtime by 15%.
- Spearheaded creation of 30+ CI/CD pipelines using GitHub Actions and Kubernetes, cutting release times by 20% and boosting deployment reliability across multiple environments.
- Migrated the production database to AWS RDS and optimized PostgreSQL queries, improving data retrieval performance by 30%.
- Instrumented observability using CloudWatch, Logstash, and Log4j2, reducing MTTR from 2 hours to 20 minutes across key services.
- Deployed 10+ containerized services to Kubernetes using Helm, enabling zero-downtime scaling and updates.
- Accelerated search query responses by 85% for over 3,000 users through the integration of ElasticSearch, significantly enhancing user experience and operational efficiency.
- Mentored two junior engineers in backend architecture, agile workflows, and CI/CD best practices, accelerating team efficiency

SKILLS

- **Programming & Front-End:** Java, Advanced Java, SQL, C, C++, Python, HTML, CSS, JavaScript, React.js, XML, JSON
- **Frameworks & Libraries:** Spring Boot, Spring MVC, Spring Cloud, Hibernate, Spring Security, gRPC, SLF4J, Rest Assured
- **Cloud, DevOps & Databases:** AWS, GCP, Docker, Kubernetes, CI/CD (Jenkins, GitLab CI), Terraform, PostgreSQL, MySQL, Redis, ElasticSearch, Kafka, RabbitMQ, Prometheus, Grafana, ELK Stack
- **Tools & Testing:** Git, Intellij IDEA, Eclipse, Postman, Swagger, Maven, JUnit, Mockito, Bitbucket, Jira, Confluence, Slack, Spring Tool Suite, cURL, GraphiQL, Selenium
- **Methodologies & OS:** Agile, SDLC, Windows, macOS

PROJECTS

HealthCare Spring Boot Application

- Built a secure healthcare management system using Spring Boot and MySQL, with role-based REST APIs for efficient handling of patient records, appointments, and staff operations. Integrated an AI-powered chatbot using WebSockets for real-time, interactive patient support, significantly enhancing user engagement and communication responsiveness.

AI Chatbot for Websites

- Developed an AI chatbot with Spring Boot and Hugging Face for real-time website interactions. Used WebSockets to enable seamless, instant communication.

EDUCATION

Webster University | *Master's, Information Technology Management*   **Jan 2023 - Dec 2024**