

Venkatesh Kurva

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SUMMARY

I am a **Java Backend Developer** with nearly **4 years of experience** in designing and building scalable **microservices**. My expertise includes **Java**, **Spring Boot**, and **Kafka**, with additional skills in **Redis caching**, **multithreading**, and **JWT-based security**. I am proficient in **CI/CD** using **Azure DevOps** and database management with **PostgreSQL** and **MySQL**. I am focused on delivering **high-performance applications** with a keen interest in integrating **front-end solutions**.

SKILLS

Backend: Java, Spring Boot, Spring Cloud, Microservices, REST APIs

Frontend: Angular (Basics)

Messaging: Apache Kafka

Caching: Redis

Database: PostgreSQL, MongoDB, MySQL, JPA/Hibernate

DevOps: Azure DevOps (CI/CD)

Cloud: AWS (Basics)

Testing: JUnit, Mockito, SonarQube

Build: Maven/Gradle

Version Control: Git (branching strategies, PR reviews)

EXPERIENCE

Capgemini

Senior Software Development Engineer

Apr 2022 – Present

Hyderabad, India

Darden (Enterprise Restaurant Management Application)

- Modernized a legacy monolithic application by adopting a **microservices architecture**, improving system scalability and reducing deployment dependencies across modules.
- Delivered features using **Agile methodology** with iterative 2-week sprints, maintaining approximately **95%** on-time sprint delivery.
- Designed and developed **150+ REST APIs** using **Java**, **Spring Boot**, and **Spring Cloud** for FOH and BOH modules, improving response times by **40–60%**.
- Applied **Spring Cloud Gateway** as a unified ingress, reducing routing latency by approximately **25%**.
- Configured and deployed **Eureka Server** for service registry and discovery, reducing inter-service communication failures and improving system resilience.
- Integrated **Kafka** for asynchronous communication across microservices, increasing event-processing throughput by **30–35%**.
- Enforced secure API access using **JWT-based authentication** and **RBAC**, significantly reducing unauthorized access attempts.
- Executed optimized **SQL** queries and applied **Redis** caching, lowering repeated database hits by **50–60%**.
- Applied **DTOEntity mappers** to maintain a clean architecture and reduce boilerplate transformation logic.
- Utilized design patterns such as **Singleton**, **Factory**, **Strategy**, **Decorator**, **Observer**, **Builder**, and **Adapter** to ensure scalable and maintainable code.
- Orchestrated concurrent task execution using the **Executor Framework** and **CompletableFuture**, improving parallel processing throughput by approximately **30%**.
- Developed unit and integration tests using **JUnit** and **Mockito**, increasing code coverage from **55%** to over **80%** and reducing regression incidents.
- Configured and optimized **Azure DevOps CI/CD pipelines** for automated build, test, and deployment, reducing deployment time from **45 minutes** to around **15 minutes**.
- Leveraged **centralized logging** and **global exception handling** to enhance observability; documented and validated APIs using **Swagger** and tested over **200+** scenarios using **Postman**.

- Applied **RestTemplate** and **Feign Client** for synchronous inter-service communication, reducing manual HTTP client code by approximately **80%**.

GitHub Migration & Developer Productivity Engineering

- Migrated **10K+** repositories across GitHub environments to enable advanced features and improved security; automated repetitive tasks using scripts.
- Resolved **500+ ServiceNow** tickets (access, permissions, repository issues), ensuring a seamless developer experience.
- Administered GitHub Copilot licenses and access through the Tech Hub portal in line with organizational policy.

CERTIFICATIONS

AWS Certified Cloud Practitioner (CLF-C01)

EDUCATION

JNTUH College of Engineering, Manthani
Bachelor of Technology in Computer Science

Aug 2017 – May 2021
CGPA: **6.1**