Krish Singh

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SUMMARY

Java Backend Developer with an M.Sc. in Computer Science and hands-on experience building Spring Boot microservices, RESTful APIs, and Dockerized applications. Strong foundation in database optimization, clean architecture, and performance tuning, with multiple end-to-end backend projects maintained on GitHub.

EDUCATION

- **Osmania University**, Hyderabad, India   Nov 2022 – Dec 2024
  Master of Science in Computer Science (GPA: 7.03)
  Courses: Operating Systems, Advanced Java, Algorithms, AI, Networking, Compiler Design

- **G. Pulla Reddy Degree College**, Hyderabad, India   Aug 2019 – Sep 2022
  Bachelor of Science in Mathematics & Computer Science (GPA: 8.41)
  Courses: Programming, Databases, Data Structures, Group Theory, Calculus

SKILLS SUMMARY

- **Languages:** Java, JavaScript, SQL, Python
- **Frameworks:** Spring Boot, Spring MVC, Hibernate/JPA, REST APIs, Node.js, React
- **Databases & Tools:** PostgreSQL, MySQL, Docker, Git
- **Core Strengths:** Problem Solving, Team Collaboration

PROJECTS

- **E-Commerce Microservices Platform** *(Java, Spring Boot, Docker, PostgreSQL)*
  - Designed Product, Order and User microservices enabling independent deployment and scalability.
  - Built RESTful APIs and inter-service communication; containerized services using Docker.
  - Optimized database queries and caching, reducing API response times by ~40%.
  - GitHub: github.com/krish561/E-comm

- **Delivery Tracking Microservice** *(Java, Spring Boot, PostgreSQL, Docker)*
  - Implemented delivery status, driver assignment and route tracking with transactional integrity.
  - Added health checks and structured logging for observability.
  - Containerized the service for consistent development and testing environments.
  - GitHub: github.com/krish561/DT

- **Inventory Management System Module** *(Java, Spring Boot, MySQL)*
  - Developed REST APIs for inventory, stock tracking and order fulfillment.
  - Implemented automated low-stock alerts and optimized SQL queries.
  - GitHub: github.com/krish561/RM

- **Code Companion – Java Web IDE** *(React, Node.js, PostgreSQL)*
  - Built an IDE with AST-based optimization suggestions and a responsive React frontend.
  - Improved syntax checking by ~50% using multi-threaded AST processing.
  - Implemented LRU caching and thread-safe singleton patterns to reduce memory usage by ~30%.
  - GitHub: github.com/krish561/CodeCompanion

CERTIFICATIONS & LEARNING

- Spring Boot 3, Spring Framework 6 & Hibernate — Chad Darby (Udemy)
- HTML & CSS: Go Deeper Than Projects — Udemy
- Actively practicing Data Structures & Algorithms on LeetCode

ADDITIONAL INFORMATION

- Problem Solving: Regular LeetCode practice (leetcode.com/u/krish165)
- Development Environment: Linux (Fedora), IntelliJ IDEA
- Interests: Backend architecture, performance optimization, clean code