Aswal krishna P

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PROFESSIONAL SUMMARY

Java Backend Developer experienced in building scalable REST APIs using Spring Boot, Spring MVC, and JPA/Hibernate. Proficient in Core Java, database design with MySQL, and securing applications using Spring Security (JWT). Familiar with CI/CD pipelines, Git, and modern backend development best practices.

SKILLS

Programming Languages: Java (OOP, Collections), Python, SQL, JavaScript (ES6+)
Frameworks/Libraries: Spring Boot (REST APIs, MVC), Hibernate, React.js, Express.js (Node.js)
Web Technologies: HTML5, CSS3, RESTful Web Services, JSON, HTTP/HTTPS
Tools & Technologies: Git (Version Control), CI/CD Pipelines, Postman, Maven
Databases: MySQL, MongoDB (NoSQL),

PROJECTS

Stock Photo Generator using Spring AI – *Java, Spring Boot, Spring AI, REST APIs, MySQL, Git*
- Developed an AI-based Stock Photo Generator using Spring Boot and Spring AI, enabling users to generate high-quality images from text prompts.
- Designed RESTful APIs for prompt submission, image generation, and storage using MySQL.
- Implemented error handling, prompt validation, and API response optimization for performance and reliability.
- Built secure and scalable REST APIs for image generation, metadata storage, and downloads using Spring Boot and MySQL.

E-Commerce Backend – *Java, MySQL, Spring Boot*
- Designed and implemented a scalable E-Commerce backend platform using Spring Boot and RESTful microservice principles.
- Built secure authentication and authorization using Spring Security, JWT, and role-based access control (Admin/User).
- Optimized database schemas and queries to handle high-volume inventory operations, reducing query latency by 30% while maintaining scalability.
- Implemented end-to-end workflows for product management, shopping cart, order placement, and payment status handling.

Banking Management System - *Core Java, OOP, File I/O*
- Designed a modular system using inheritance, polymorphism, and encapsulation to handle various banking operations.
- Created transaction logs using Java Collections and file I/O to persist account data securely.
- Added exception handling and validation to ensure system reliability and data consistency.
- Demonstrated deep understanding of Core Java fundamentals, system design, and error handling.

EDUCATION

- **Vellore Institute of Technology** — Chennai, Tamil Nadu
  B. Tech + M. Tech(Dual Degree) in Computer Science specialized in Software Engineering — *Aug. 2020 – May. 2025*

CERTIFICATIONS

SC-900: Microsoft Security, Compliance and Identity Fundamentals — Microsoft, 2022

ACHIEVEMENTS

Research Publication - *"Intelligent System for Mood and Depression Detection and Analysis "* published on IEEE, July 2025.