

Mohanraj B

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EDUCATION

S.A Engineering College

Bachelor of Engineering, CSE (AI ML) — CGPA: 8.0

Chennai, India

Nov. 2022 – May 2026

PROFESSIONAL SUMMARY

Recent CSE (AI & ML) graduate with a strong foundation in Java, Spring Boot, SQL, and REST APIs. Skilled in designing meaningful software solutions, understanding customer requirements, and applying software engineering best practices. Passionate about backend development with effective communication, problem-solving, and time management skills.

PROJECTS

AI-Powered Smart Loan Approval System | *Spring Boot, Python, FastAPI, Scikit-learn*, Jan 2026 – April 2026

- Developed a secure online banking platform supporting account management, fund transactions, loan processing, and role-based access control using Spring Boot and MySQL.
- Integrated a Machine Learning microservice (FastAPI + Scikit-learn) with the banking application to automate loan eligibility prediction based on customer financial behaviour.
- Engineered a feature extraction pipeline using transactional data including salary credits, bill payments, account balance, transaction frequency, and historical repayment records for real-time inference.
- Implemented an intelligent decision workflow that automatically approves and disburses loans for applications with ML confidence greater than 70%, reducing manual intervention while routing uncertain applications to managers for review.

College Event Management System | *Spring Boot, JavaScript, MySQL*

Nov 2025

- Developed a scalable event management platform using Spring Boot and MySQL.
- Designed RESTful APIs for event registration, applicant tracking, and event management.
- Implemented JWT-based authentication and authorization for secure access control.
- Followed iterative development practices and coding standards throughout the development lifecycle.
- Containerized the application using Docker for simplified deployment.

Online Banking Application | *Spring Boot, Spring Security, JWT, Thymeleaf, MySQL*

Aug 2025

- Designed and developed a secure monolithic banking application following layered architecture principles.
- Applied SOLID principles, design patterns, and coding standards to improve maintainability and scalability.
- Utilized Hibernate ORM with Spring Data JPA for efficient database interactions and transaction management.
- Implemented authentication, authorization, and secure transaction processing following security best practices.
- Designed database operations adhering to ACID properties for data consistency and reliability.

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript

Core CS: Data Structures and Algorithms, DBMS, Operating Systems

Frameworks: Spring Boot, Spring Security, Spring Data JPA, Hibernate

Software Engineering: OOP, SOLID Principles, Design Patterns, Coding Standards, Code Refactoring, SDLC, Iterative Development

Architecture: Monolithic Architecture, API Design, Design-First Approach, Code-First Approach

Database: MySQL, Oracle, ACID Properties, ORM (Hibernate/JPA), Database Normalization, ER Diagrams

Testing: Unit Testing, Integration Testing, Functional Testing, Debugging

DevOps & Tools: Git, GitHub, Docker, Maven, Postman, Swagger, CI/CD Concepts

Backend Concepts: REST APIs, Caching, Concurrency, Authentication & Authorization, Security Best Practices

CERTIFICATIONS

- Java - Besant Technologies
- Python - Guvi
- Problem Solving by HackerRank
- Ai For India 2.0 By GUVI
- Generative Ai and LLM by Google Cloud Skills Boost
- CSS by HackerRank