

KAVIN C

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Portfolio — GitHub — LinkedIn

PROFESSIONAL SUMMARY

Backend Developer and Information Technology student with hands-on experience in Java, Spring Boot, REST API development, and MySQL. Skilled in designing scalable backend applications, database optimization, and clean layered architecture. Strong foundation in Data Structures, Object-Oriented Programming, DBMS, and software engineering principles.

TECHNICAL SKILLS

- **Languages:** Java, SQL
- **Frameworks:** Spring Boot, Spring MVC, Spring Data JPA, Hibernate
- **Backend:** REST API Development, CRUD Operations, Microservices (Basics)
- **Database:** MySQL
- **Tools:** Git, GitHub, Maven, Postman
- **Concepts:** Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), DBMS, HTTP/JSON, API Security, Layered Architecture

PROJECTS

ChargeFlow – EV Grid Optimizer

Java, Spring Boot, React, MySQL

GitHub Repository

- Developed a full-stack EV charging management platform using Spring Boot REST APIs, React, and MySQL.
- Implemented the Erlang-C queueing algorithm to optimize charging station allocation, reduce vehicle waiting time, and improve charger utilization.
- Designed real-time charging station monitoring with dynamic route recommendations based on queue length and station availability.
- Built scalable backend services with layered architecture and optimized database operations for efficient charging session management.

Student Management System

Java, Spring Boot, MySQL

GitHub Repository

- Developed RESTful APIs to manage student records with efficient CRUD operations and optimized database access.
- Implemented Controller-Service-Repository architecture to improve maintainability and scalability.
- Added validation and global exception handling to ensure reliable API responses.
- Created unit tests using JUnit to verify service-layer functionality and improve application quality.

Library Management System

MySQL, Database Design

GitHub Repository

- Designed a normalized relational database schema following Third Normal Form (3NF).
- Developed SQL queries using joins, subqueries, and constraints for efficient library operations.
- Improved data consistency through primary keys, foreign keys, and integrity constraints.

AI-Based Skin Cancer Detection

Deep Learning

GitHub Repository

- Developed an image classification model for identifying malignant and benign skin lesions using medical image datasets.
- Performed image preprocessing, dataset validation, and model evaluation to improve prediction reliability.

EDUCATION

Bachelor of Technology in Information Technology

2023–2027

Sri Krishna College of Technology, Coimbatore

CERTIFICATIONS

- Java Programming Certification – ETS Academy
- SQL Fundamentals – Coursera

ADDITIONAL INFORMATION

- Proficient in Git and GitHub for version control and collaborative software development.
- Experienced in API testing and debugging using Postman.
- Interested in Backend Development, Distributed Systems, and REST API Design.