

MOHAN RAJ S

FULL-STACK DEVELOPER

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PROFILE SUMMARY

Highly motivated and detail-oriented Full-Stack Developer with extensive foundational and practical knowledge in Java, Spring Boot framework, RESTful Web Services, and relational database management systems. Proven expertise in designing end-to-end web applications, implementing robust backend architectures with Hibernate/JPA, and building responsive front-end user interfaces using HTML5, CSS3, JavaScript, and Bootstrap. Demonstrated strong hands-on capability through comprehensive industry internships, embedded systems exposure, and complex software projects. Adept at analyzing system requirements, applying logical problem-solving strategies, writing scalable and clean maintainable code, and collaborating effectively within dynamic, agile cross-functional software teams.

EDUCATION

B.E. Electronics and Communication Engineering 2020 – 2024

Anna University | CGPA: 7.47%

Higher Secondary Certificate (HSC) 2020

Govt Higher Secondary School, Kadathur | Score: 69%

Secondary School Leaving Certificate (SSLC) 2018

Govt Higher Secondary School, Kadathur | Score: 80%

SKILLS

Java Core & Advanced :Core Java, OOPs Concepts, Exception Handling, Collections Framework, Multithreading, File I/O, JDBC

Frameworks & Web Tech :Spring Boot, RESTful APIs, Bootstrap, HTML5, CSS3, JavaScript

Databases & ORM :SQL, MySQL, Hibernate / JPA, NoSQL

Tools & DevOps :Git & GitHub, Maven, Postman, Eclipse / IntelliJ IDEA, VS Code, WordPress

Other Languages :Python, Embedded C

Professional & Soft Skills:Agile/Scrum Methodologies, Code Optimization & Debugging, Analytical Reasoning, Problem Solving, Team Collaboration, Adaptability

Languages Known :Tamil, English

KEY COMPETENCIES & AREAS OF INTEREST

Core Focus Areas :Backend Architecture, RESTful API Development, Relational Database Modeling, CRUD System Design

Development Practices:Object-Oriented Programming (OOP), Code Optimization, Version Control (Git), Agile Teamwork

Technical Domains :Full-Stack Web Engineering, Software System Security, Cloud Computing Fundamentals

PROJECTS

Employee Management & Payroll System

2025

- **Description:** Engineered a full-stack web application designed to automate employee record management, attendance tracking, and monthly salary slip generation.
- **Tech Stack:** Java, Spring Boot, RESTful APIs, Hibernate/JPA, MySQL, HTML5, CSS3, JavaScript, Bootstrap.
- **Key Features:** Implemented role-based authentication, structured REST APIs for CRUD operations, and integrated relational MySQL database for data consistency.

E-Commerce Web Application

2025

- **Description:** Developed a scalable online shopping portal supporting product catalog browsing, cart management, and order transaction workflows.
- **Tech Stack:** Java, Spring Boot, REST APIs, MySQL, Postman, Bootstrap, HTML5/CSS3.
- **Key Features:** Built backend endpoints for product filtering and cart state preservation, tested APIs thoroughly using Postman, and created an intuitive user interface.

Vehicle Collision Avoidance Detection System

2024

- **Description:** Developed an advanced automotive safety system designed to detect and prevent vehicle collisions using high-frequency mmWave radar technology.
- **Tech Stack:** Embedded C, Microcontroller, mmWave Radar Sensors.
- **Key Responsibilities:** Programmed sensor data processing algorithms, calibrated detection thresholds, and implemented real-time audio/visual alert triggers.

INTERNSHIPS & IN-PLANT TRAINING

Elysium Technologies — Java Developer Intern

2025

- Mastered Core Java concepts including OOPs, Inheritance, Polymorphism, Encapsulation, and Abstraction to write efficient object-oriented software.
- Practiced robust exception handling, file I/O operations, multithreading, and collections framework for performance-driven coding.
- Implemented JDBC for seamless relational database connectivity, CRUD operations, and data management using MySQL.
- Gained hands-on confidence in solving complex real-world programming problems and building modular Java applications.

NxtGen Instruments — Embedded Systems Intern

2023

- Acquired fundamentals of embedded systems architecture, hardware-software interfacing, and microcontroller programming.
- Studied core basics of RTOS (Real-Time Operating System), task scheduling, and real-time execution principles.
- Designed basic PCB layouts and schematics using industry tools like Fritzing and Eagle.

JAAI Power Distributors — In-Plant Trainee

2023

- Gained comprehensive industry knowledge about industrial panel designing architecture, electrical safety standards, and engineering workflows.

Training Trains — Python Programming Intern

2022

- Built solid foundations in Python programming, including data structures, loops, conditionals, object-oriented concepts, and functions.
- Developed practical mini-projects including a Student Record System and a functional Calculator Application.

Dream Techno Park — In-Plant Trainee**2022**

- Acquired technical training focused on the core fundamentals of Printed Circuit Board (PCB) Design workflow and etching techniques.

Caliber — In-Plant Trainee**2022**

- Attended comprehensive foundational training to learn the essential concepts of Industrial Automation, PLC, and sensor integrations.

CERTIFICATIONS & CO-CURRICULARS

- **Data Science and Analytics** – Certified by Pantech e-Learning (2023).
- **Smart Phone Troubleshooting, Mobile Service, and Training Skills** – Shree Venkateshwara Hi-Tech Engineering College (2022).
- **Webinar Certification:** Webinar on "Implementation of National Education Policy (NEP) 2020" – Shree Venkateshwara Hi-Tech Engineering College (2021).
- **BSS Life Skills Development Programme** – Completed under Bharat Sevak Samaj (2022).
- **Voluntary Blood Donation Quiz Competition** – Participated and certified by TANSACS (2023).

DECLARATION

I hereby declare that all the details provided above are true and correct to the best of my knowledge and belief.

Place: Sathyamangalam

Date:

(MOHAN RAJ S)