

# SHIBIN SAJI

## FULL STACK & AI DEVELOPER ASPIRANT

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**Portfolio:** shibinsaji.xyz | **Github:** github.com/shibinnakam

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### SUMMARY

Motivated MCA student with a strong foundation in MERN stack development, artificial intelligence, and IoT systems. Experienced in designing and developing scalable web applications, RESTful APIs, and smart, technology-driven solutions. Hands-on experience in building IoT projects using ESP-based microcontrollers, enabling real-time data processing and automation. Possesses strong analytical and problem-solving skills with a keen interest in emerging technologies. Seeking opportunities as a Full Stack Developer, Backend Developer, or AI Engineer to contribute effectively to innovative projects.

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### EDUCATIONAL BACKGROUND

#### MASTER OF COMPUTER APPLICATIONS - Pursuing

2024 - 2026

Amal Jyothi College of Engineering Autonomous Kanjirappally

#### BACHELOR OF SCIENCE IN COMPUTER SCIENCE

2021 - 2024

College of Applied Science Kanjirappally

#### MECHANIC IN REFRIGERATION AND AIR-CONDITIONING

2019 - 2021

Madonna Institute of Electronics and Engineering Kanjirappally

#### HIGHER SECONDARY

2017 - 2019

SNDP HSS Venkurinji

#### SSLC

2016 - 2017

Govt. Technical HS Kanjirappally

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### INTERNSHIPS

#### Node.js & MongoDB Atlas Intern

April 01, 2025 - April 30, 2025

- Worked as a Backend Development Intern with hands-on experience in building scalable web applications.
- Developed server-side applications using Node.js for efficient and dynamic functionality.
- Utilized MongoDB Atlas for cloud-based database management and data storage.
- Designed and implemented RESTful APIs for seamless communication between frontend and backend.
- Focused on writing optimized server-side logic to enhance application performance and efficiency.

## TECHNICAL SKILLS

**Programming:** Python, Java, JavaScript, PHP

**Web Technologies:** HTML5, CSS3, JavaScript (ES6+), React.js, Node.js, Express.js

**Databases:** MongoDB, MongoDB Atlas, MySQL, SQL

**Frameworks & Tools:** REST API, Git, GitHub, Cloud Technologies

**AI & Security:** Machine Learning Basics, Network Security, Secure Data Handling

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## SOFT SKILLS

Problem Solving | Team Collaboration | Communication | Time Management | Adaptability

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## PROJECTS

### AI and RFID Based Distribution Management System

- Developed an AI and RFID-based Distribution Management System to automate order processing, attendance tracking, and inventory management.
- Designed responsive and user-friendly frontend interfaces using Vue.js for seamless cross-device interaction.
- Built scalable backend services using Node.js and Express.js for efficient handling of system operations and user management.
- Integrated RFID technology for automated staff attendance and real-time tracking of distribution activities.
- Implemented GPS tracking using the Neo-6M module for location-based monitoring and improved logistics management.
- Applied the Isolation Forest algorithm to detect and prevent anomalies in RFID-based attendance data, enhancing system security and reliability.
- Developed secure and scalable database solutions using MongoDB Atlas, ensuring efficient data storage and retrieval.
- Enabled real-time order updates, payment processing, and reporting features to optimize operational efficiency.
- URL:

### Vehicle Emission Testing Website

- Developed a static web-based system for managing vehicle emission testing data.
- Designed a responsive and user-friendly interface using React.js.
- Implemented search and filtering features for quick access to records and center details.
- Enhanced usability through clear and structured data organization.
- **URL:** [vetoakozhikode.in](http://vetoakozhikode.in)

### Disaster Management System

- Developed a web-based Disaster Management System using Python Django (backend), MySQL (database), and HTML with Bootstrap (frontend) to support emergency response and coordination.
- Designed responsive and user-friendly interfaces using HTML and Bootstrap for seamless access to helpline numbers and volunteer contacts across devices.

- Implemented features for requesting essential services such as food and medical assistance during disaster situations.
  - Built a volunteer registration module to enable community participation and effective support during emergencies.
  - Integrated real-time weather updates and disaster-related information, including flood reports and important documents.
  - Ensured a reliable, scalable, and efficient system to enhance communication and resource management during critical events.
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## **CERTIFICATIONS**

### **Cloud Computig**

NPTEL - Indian Institute of Technology Kharagpur

Roll: NPTEL25CS11S1049900451

### **Internet of Things**

NPTEL - Indian Institute of Technology Kharagpur

Roll: NPTEL25CS147S1061200770

### **Human Computer Interaction**

NPTEL - Indian Institute of Technology Kharagpur

Roll: NPTEL25CS38S549900240

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## **PUBLICATIONS**

### **AI-Driven Behavioral Anomaly Detection for RFID-Based Attendance Verification**

- Developed an AI-based RFID attendance fraud detection system using behavioral pattern analysis.
  - Implemented Isolation Forest for anomaly detection with real-time microservices architecture.
  - Achieved low-latency detection (150–250 ms) with high accuracy.
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## **EXTRA-CURRICULAR ACTIVITIES**

- Participated in the NASA Space Apps Challenge conducted by NASA, hosted at Amal Jyothi College of Engineering, collaborating on innovative space and technology-based problem-solving projects.
  - Participated in Navakerala Sadas student interaction program with the Chief Minister, organized by the Government of Kerala at Kozhikode.
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## **REFERENCES**

### **Ann Mary Thomas**

Assistant Professor

Amal Jyothi College of Engineering

Autonomous Kanjirappally

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