

SURYA M

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WORK EXPERIENCE

Trainee Embedded Software Engineer

July 2025 - present

Phytec Embedded Pvt Let, Bengaluru, India

- Built backend modules for a Smart City IoT platform using Java Spring Boot, improving real-time data handling by 30%
- Developed a Face Recognition Admin Portal (Spring Boot + React), enhancing data access and workflow efficiency by 40%
- Automated employee logs, live status, and Excel exports, reducing manual efforts by 70%
- Optimized MySQL queries and REST APIs, improving system response time and reliability.
- Collaborated with hardware and cloud teams to deliver end-to-end functionality.

PROJECTS

E-Commerce Website Development | Spring Boot,MySQL,Reactjs

- Built a full-stack e-commerce app using **Spring Boot + React**, improving UI responsiveness and performance.
- Designed REST APIs and optimized SQL queries, reducing page load time by **30%**.
- Automated order and inventory workflows, reducing manual operations by **50%**.
- Added analytics dashboards to track sales patterns, improving business insights by **15%**.

Coal Mine Safety System and Alerting System with Helmet using Rugged Board A5D2X | Python,ThingsBoard,A5D2X Rugged Board

- Built a real-time safety system using **Rugged Board A5D2X** for underground hazard detection
- Integrated **MPU6050** motion and **MQ-7** toxic gas sensors, increasing detection accuracy by **40%**.
- Added **NEO-6M GPS** worker tracking, increasing emergency response efficiency by **25%**.
- Implemented MQTT–ThingsBoard cloud monitoring, improving alert visibility and safety by **30%**.

EDUCATION

2025	Master of Computer Applications Rathinam Technical Campus, Coimbatore, India	CGPA: 7.5
2022	Bachelor of Computer Applications Sri Kaliswari College, Sivakasi, India	CGPA: 7.23

SKILLS

Programming	Core Java Python
Web Development	HTML/CSS JavaScript React
Database Management	MySQL PostgreSQL MongoDB
Technology	Git GitHub ThingsBoard
Backend Framework	Spring Boot

CERTIFICATIONS

- **Core Java and J2EE** – Accord Info Matrix
- **Career Essentials in Software Development** – Microsoft & LinkedIn