

# DEVI SELVAKUMAR

Erode, Tamil Nadu, India

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## Summary

Electronics and Communication Engineering student with a strong passion for full-stack web development and emerging technologies. Experienced in building scalable web applications using the MERN stack, with hands-on expertise in IoT systems, robotics, and electronics manufacturing. Committed to creating user-friendly applications and innovative technical solutions.

## Education

### M Kumarasamy College of Engineering

Bachelor of Engineering in Electronics and Communication Engineering

2023 – 2027

CGPA: 8.5/10

### SPK Matric Higher Secondary School

Higher Secondary

2012 – 2022

Grade : 9/10

## Technical Skills

**Languages:** JavaScript, TypeScript, Python, C++, HTML, CSS

**Frontend:** React.js, Next.js, Tailwind CSS, Framer Motion, Material-UI

**Backend:** Node.js, Express.js, MongoDB, PostgreSQL, RESTful APIs

**Tools & Technologies:** Git, GitHub, VS Code, Postman, Vite, npm, Docker

**Hardware & Electronics:** Arduino, Raspberry Pi, IoT Systems, PCB Design (Altium), Digital Electronics

**Cloud & DevOps:** Cloud Computing, Industrial IoT (NPTEL Certified)

## Experience

### IoT & Robotics Intern

National Small Industries Corporation (NSIC)

2024

Coimbatore, India

- Developed IoT-based robotics projects integrating sensors and actuators with microcontrollers
- Gained hands-on experience in embedded systems programming and real-time data processing
- Collaborated with a team to design and implement automation solutions for industrial applications

### Electronics Manufacturing Intern

Popular Systems

2024

Coimbatore, India

- Assisted in the assembly, testing, and quality control of electronic components and circuit boards
- Learned about PCB design, soldering techniques, and electronics manufacturing processes
- Contributed to troubleshooting and debugging electronic systems in production

## Projects

### Hotel Management System | MERN Stack, Tailwind CSS

2024

- Built a full-stack web application for managing hotel operations including room booking and customer management
- Implemented user authentication, reservation system, and admin dashboard with real-time updates
- Utilized MongoDB for database management and Express.js for RESTful API development

### Staff Portal | React.js, Node.js, MongoDB

2024

- Developed an internal staff management portal with role-based access control and task assignment features
- Integrated attendance tracking, payroll management, and communication tools
- Designed responsive UI with modern design principles for optimal user experience

### Library Management System | JavaScript, Express.js, PostgreSQL

2024

- Created a digital library system for book cataloging, member management, and lending operations
- Implemented search functionality, due date notifications, and fine calculation automation
- Designed database schema with proper normalization and indexing for efficient queries

### **Fire Detection System | Arduino, Sensors, IoT**

**2024**

- Designed an IoT-based fire detection system using temperature and smoke sensors with Arduino
- Integrated real-time alerts via SMS and mobile notifications for emergency response
- Calibrated sensors for accurate detection and minimized false alarms

### **Safety First System | Embedded Systems, C++**

**2024**

- Developed a safety monitoring system for industrial environments with multiple sensor integrations
- Implemented automated shutdown protocols based on hazard detection thresholds
- Created user-friendly interface for monitoring system status and generating safety reports

### **Drip Bag Monitor | Arduino, Healthcare IoT**

**2024**

- Built a medical device monitoring system to track IV drip levels and alert healthcare staff
- Used ultrasonic sensors and load cells for accurate fluid level measurement
- Developed a dashboard for real-time monitoring across multiple patient beds

## **Certifications**

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**Cloud Computing** – NPTEL (National Programme on Technology Enhanced Learning)

**Industrial IoT** – NPTEL (National Programme on Technology Enhanced Learning)

**PCB Design with Altium** – Professional Training Course

**Robotics & IoT Internship** – NSIC (National Small Industries Corporation)

**German Language Certification** – Language Institute

**IEEE Workshop** – IEEE Student Chapter, KPR Institute

**Creafeast Paper Presentation** – KPR Institute Technical Symposium

## **Achievements & Activities**

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Presented technical paper at Creafeast symposium hosted by KPR Institute

Completed multiple NPTEL online courses with excellent performance in Cloud Computing and Industrial IoT

Active participant in IEEE technical workshops and student chapter activities

Developed 6+ full-stack web applications and IoT projects demonstrating practical skills