

# BALAMURUGAN S

**Phone:** +91 9626170068

**Email:** balabala13570@gmail.com

**LinkedIn:** [linkedin.com/in/balamurugan-s-b04aa8257/](https://www.linkedin.com/in/balamurugan-s-b04aa8257/)

**GitHub:** [github.com/balamurugan-s-dev](https://github.com/balamurugan-s-dev)

**Location:** Trichy, India

## SUMMARY

---

Motivated and detail-oriented Full-Stack Developer & IoT Engineer with expertise in MERN stack (MongoDB, Express.js, React.js, Node.js), Python automation, and IoT solutions. Strong understanding of network & server management and cloud computing (Azure). Passionate about leveraging technology to develop scalable and efficient solutions.

## EDUCATION

---

### Bachelor of Technology in Artificial Intelligence and Machine Learning

K Ramakrishnan College of Engineering | 2022 – 2026

### Higher Secondary Education (12th Grade)

Raghavandhra Higher Secondary and Matriculation School | 2021 – 2022

### Secondary Education (10th Grade)

Gee Vee Vidhyalaya Matriculation and High School | 2020 – 2021

## TECHNICAL SKILLS

---

- **Programming Languages:** Python, JavaScript, C++
- **Web Development:** MERN Stack (MongoDB, Express.js, React.js, Node.js)
- **IoT Development:** Microcontrollers, Sensor Networks, Embedded Systems
- **Network & Server Management:** Windows Server, Network Configuration, Virtualization
- **Software Development:** REST APIs, Web Applications
- **Cloud Computing:** Microsoft Azure (Deployment, Serverless Functions)
- **Tools & Platforms:** Git, Docker, Postman, Firebase, Linux

## PROJECTS EXPERIENCE

---

### IoT-Based Home Automation

- Developed a smart automation system utilizing IoT and microcontrollers, achieving a 40% improvement in energy efficiency.

### Solar Tracker (Non-Electrical Device)

- Designed an eco-friendly solar tracking system that increased solar panel efficiency by 30%.

### MERN-Based Inventory Management System

- Integrated React UI, REST API, MongoDB database, and Node.js backend, improving operational efficiency by 25%.

### Python Automation Scripts

- Automated data processing tasks using Python, reducing manual effort by 60%.

## CERTIFICATIONS & ACHIEVEMENTS

---

- Microsoft Azure Cloud Computing Certification
- Python Programming (IAFC)
- Q5 Japanese (NAT)

## AWARDS & ACHIEVEMENTS

---

- 1st Place – Environmental Expo for sustainable innovation.
- 3rd Place – Tech Development Competition for innovative solutions in AI.

## TECHNICAL INTERESTS

---

- Enthusiastic about web and IoT development; keen on contributing to open-source community projects.
- Participated in hackathons, showcasing strong problem-solving skills and teamwork.

## WORKSHOPS & TRAINING

---

- **IoT Workshop** – Trichy
- **Full-Stack Web Development Bootcamp** – Hands-on training in MERN Stack applications