

Sanjai Magilan S

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Professional Summary

ECE undergraduate with hands-on experience in developing **scalable web applications** and **automation-driven workflows**. Led a **13-member team** to deliver a **client-facing real-time system**, reducing manual processes by **60%**. Strong foundation in **DevOps practices, system design, and performance optimization**.

Core Competencies

- Scalable application design and system architecture
- Application reliability, performance optimization, and debugging
- Code quality assurance and maintainable development practices
- Cross-functional collaboration and stakeholder coordination
- CI/CD pipelines, automation workflows, and deployment practices

Technical Skills

Languages: Python, C, C++, Java (OOP)

Web & Backend: EJS, MERN Stack, REST APIs

DevOps & Cloud: Docker, Git, GitHub, CI/CD, AWS (EC2, S3 - Basic), Nginx (Basic), Bash (Basic)

Testing: Jest (Basic), k6 Load Testing (Basic)

Database: MySQL, MongoDB

Systems: Linux (customization & performance tuning)

Projects

AutoGitPush – Git Workflow Automation Tool

GitHub

- Automated Git commit and push workflows using Bash, reducing manual effort by **60%**
- Standardized development workflows, minimizing version control errors
- Developing a VS Code extension to scale automation across developers

Queue Management System

1st Prize – Hackathon — GitHub

- Developed a login-free digital token system, decreasing queue confusion by **50%**
- Implemented REST-based backend communication for real-time queue tracking
- Applied design thinking principles to deliver an accessible and intuitive UI

Temple Management System

Client Project — Team Lead – 13 Members

- Designed and deployed a real-time booking and donation platform using EJS and MySQL
- Implemented role-based access control and Google OAuth authentication
- Improved team productivity by **40%** through structured workflows and code reviews
- Reduced critical bug resolution time by **50%** through mentoring and debugging

Leadership Experience

President – IoT Club

- Led a team of 6 to organize and execute 3+ technical events
- Increased participation and engagement by **30%**

Core Organizer – Multiverse Hackathon

National-Level, 30-Hour

- Managed logistics, food services, and participant coordination
- Ensured **100% participant satisfaction** through adaptive decision-making

Education

B.E. Electronics and Communication Engineering

M. Kumarasamy College of Engineering, Karur

2023 – 2027

Certifications

- AWS Certified Cloud Practitioner (In Progress)
- JLPT N5 – Japanese Language Proficiency Test (JLPT N4 in Progress)
- NPTEL: Design & Implementation of Human-Computer Interfaces (IIT Guwahati)