

TECHNICAL SKILLS

- Programming Languages: C, Java, JavaScript.
- Data Structures, OOPs, RESTful API, Web Socket, Version Control(Git, GitHub) .
- Database: MySQL, MongoDB.
- Web Technologies: HTML, CSS.
- Frameworks and libraries: Reactjs, Nodejs, Express, SpringBoot
- Developer Tools: VS code, IntelliJ IDEA.

PROJECTS

AI Powered PLC Automation | MERN | Embedded C [\[Link\]](#)

- Developed an AI-powered PLC automation system that translates natural language prompts into Structured Text (ST), enabling seamless industrial automation.
- Implemented dynamic PLC execution on OpenPLC via WiFi, ensuring live updates without system downtime.

SQL Learning Platform | MERN | Python | MYSQL [\[Link\]](#)

- Interactive SQL learning platform designed for college DBMS classes. It enables faculty to assign exercises and tests, while students can learn, practice SQL, and receive guidance. Faculty can also monitor student progress for improved assessment.
- Developed with the MERN stack, integrated Google Gemini 1.5 Pro for NLP-based doubt clearing, implemented RBAC, and utilized AlaSQL for the SQL playground.

AYUSH Startup Registration Portal | MERN | WebSocket | JWT [\[Link\]](#)

- Developed an intelligent AYUSH Startup Registration Portal to streamline startup registrations, enabling seamless document submission, verification, and real-time communication for a faster approval process.
- Integrated AI-powered assistance and role-based access control (RBAC), optimizing the verification workflow and reducing manual effort for officials.

Smart Energy Monitoring & Optimization | MERN | WebSocket | Embedded C [\[Link\]](#)

- Built an electricity monitoring system that tracks appliance consumption, creates custom usage plans, and alerts users to turn off appliances when they exceed their targets.
- Fetched data from sensors using Arduino Nano, transmitted it to the Node.js server via Bluetooth, and leveraged WebSocket for real-time client-server interaction.

EDUCATIONS

Kongu Engineering College B.E Electrical and Electronics Engineering	2022 - Present CGPA:9.08
Sevamandir Matriculation Higher Secondary School HSC and SSLC	2020 - 2022 89.33% and 95.6%

ACHIEVEMENTS

- Won 1st prize in coding contest conducted by PSG college of technology.
- Secured prizes in 3 intra-college coding competitions.
- Secured 3rd prize for the Electricity Monitoring & Optimization System in a 24-hour GDSC Hackathon.
- Secured 3rd prize in IDEATHON for Project Presentation at the Department of EEE, KEC.
- Recognized in the Top 5% for Academic Excellence Award (2022-2023).