

LOKESH MANICKAM S K

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OBJECTIVE

Passionate Electrical and Electronics Engineering undergraduate seeking an entry-level Software Developer role. Strong foundation in Java, Object-Oriented Programming, and problem solving with hands-on experience in building real-world software and IoT applications. Eager to contribute to scalable software solutions while continuously improving coding and system design skills.

TECHNICAL SKILLS

Programming Languages	Java, C
Core CS Concepts	OOP, Data Structures (Basic), File Handling, DBMS
Web Technologies	HTML5, CSS3, JavaScript
Backend Basics	Node.js, PHP
Database	MySQL (CRUD Operations)
IoT & Embedded	ESP32, Arduino, Sensors, Relay Control
Tools	VS Code, Git, MATLAB
Soft Skills	Problem Solving, Logical Thinking, Teamwork, Communication

PROJECTS

Bank Management System (Core Java)

Developed a console-based banking application using Core Java implementing OOP concepts such as classes, objects, encapsulation, and file handling. Features include account creation, deposit, withdrawal, balance enquiry, and transaction history, simulating real-world banking operations.

IoT and AI-Based Predictive Maintenance System for Irrigation Pumps

Built an ESP32-based real-time monitoring system to collect pump parameters and applied intelligent analysis to detect early faults like dry run and overload conditions. Generated predictive alerts to reduce downtime and improve maintenance planning.

AI-Enabled IoT Smart Relay Automation System

Designed a relay-based automation system using ESP32 for remote monitoring and control of electrical loads. Improved energy efficiency and safety through intelligent load management.

Full-Stack Portfolio Website with Live Deployment

Developed and deployed a responsive portfolio website using Node.js, Express, and MongoDB Atlas. Implemented REST APIs and hosted frontend and backend on cloud platforms demonstrating full-stack development capabilities.

INTERNSHIPS

NoviTec R&D Pvt. Ltd.

Nov 2025 – Dec 2025

Full Stack Development & UI/UX Intern

- Developed responsive web interfaces using HTML, CSS, and JavaScript
- Assisted in backend integration using PHP and database concepts
- Designed UI wireframes and prototypes using Figma
- Gained exposure to client-server architecture and real-world software workflows

Voltech Manufacturing Private Limited

Jun 2025 – Jul 2025

Industrial Training – Transformer Manufacturing

- Studied transformer assembly, testing procedures, and quality control standards
- Understood electrical manufacturing workflows and documentation practices

Neyveli Lignite Corporation India Limited (NLCIL)

Implant Training – Thermal Power Plant II

Jun 2024 – Jul 2024

- Observed large-scale power plant operations and safety procedures
- Learned discipline, teamwork, and industrial workflow management

EDUCATION

Bachelor of Engineering – Electrical and Electronics Engineering

2022 – Present

St. Joseph's Institute of Technology, Chennai

CGPA: 7.74

Higher Secondary Education (12th)

2022

Jawahar Higher Secondary School, Neyveli

Percentage: 61%

Secondary Education (10th)

2020

SRK International Senior Secondary School, Neyveli

Percentage: 72%

CERTIFICATIONS

- Programming Foundations with JavaScript, HTML, and CSS — Duke University (Coursera)
- Data Analytics Job Simulation — Deloitte (Forage)
- Web Development Fundamentals — IBM SkillsBuild
- Getting Started with Data — IBM SkillsBuild

LANGUAGES

English, Tamil