

S. Varsha

GitHub: Varsha-S2005

LinkedIn: S. Varsha

Email: Varshapandian95@gmail.com

Phone: +91 9871579051

Education

B.Tech in Computer Science and Engineering (IoT)

2023 – Present

Shiv Nadar University, Chennai

CGPA: 8.45 (Up to 3rd Semester) – Document Link

Junior Core Member, Aura (Design) Club

Experience

WAISL Limited, New Delhi (Onsite)

June 2025 – July 2025

Web Development Intern

- Contributed to the CDM (Collaborative Decision Making) project, enhancing backend data flow for airport operations.
- Built a JSP frontend integrated with MySQL to streamline data input and management.
- Automated Excel report generation using Apache POI, improving accuracy and reducing manual workload.
- Collaborated in Agile sprints with Git-based workflows and regular peer reviews.

Projects

Smart Energy Meter

Feb 2024 – May 2024

C++, Arduino, ESP8266, IoT, PZEM-004T

- Designed and developed a smart energy metering system to monitor real-time power consumption.
- Devised robust error handling and Wi-Fi connectivity to ensure seamless data transmission.
- Enabled users to track and manage energy usage efficiently through continuous monitoring.

EMI Loan Calculator

Mar 2025 – Apr 2025

Python, Flask, MySQL, HTML/CSS, JavaScript

- Developed and deployed a dynamic EMI calculation feature for fast financial planning.
- Engineered a responsive and interactive web interface for seamless loan EMI calculation.

CDM Project

June 2025 – Present

JSP, MySQL, Apache POI, Java

- Built a JSP-based system for analyzing structured flight data.
- Converted fixed-width text files to Excel and MySQL using POI and backend logic with timestamps and DOP validation.
- Currently developing a Spring Boot-based backend module for secure login and role-based access.

Skills

- Languages:** C++, Python, Java, HTML/CSS, JavaScript, MySQL, ARM Assembly
- Tools & Frameworks:** Version Control(Git), Shell Scripting, React.js, Spring Boot, Docker, Agile, Microservices
- Core CS:** DSA, OOPS, Operating Systems, Computer Networks, DBMS

Achievements & Certifications

- Smart India Hackathon:** Secured a position among the top 30 teams out of 100 in the Internal Hackathon round of Smart India Hackathon, addressing the problem statement Early Warning System for Glacial Lake Outburst Floods (GLOFs). Engineered an early warning system with advanced sensors, real-time data processing, and predictive algorithms for rapid threat detection and alerting.
- Hackoverflow 8.0 (NIT Durgapur):** Progressed to the penultimate stage in Hackoverflow 8.0 conducted by NIT Durgapur, showcasing innovative solutions to the same problem statement.
- Programming in Modern C++ (NPTEL)** Nov 2024
Gained proficiency in STL, smart pointers, and modern object-oriented C++ programming practices.
- Mastering Data Structures and Algorithms (Udemy)** Oct 2024
Strengthened problem-solving through implementation of core algorithms and data structures in C/C++.
- IBM Certified Python for Data Science, AI & Development (IBM)** May 2025
Learned end-to-end Python programming with a focus on data analysis, visualization, and AI fundamentals.
- Programming with JavaScript (Meta)** May 2025
Built interactive web functionality and logic using core JavaScript concepts and browser APIs.