

# SWASTHIKA P S

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 LinkedIn

 GitHub

 Portfolio

## PROFILE

Computer Science student with strong fundamentals in Data Structures and Algorithms and hands-on experience through academic and personal projects. Interested in building efficient, scalable, and user-focused software solutions. Quick learner with strong logical reasoning, collaborative skills, and a solid understanding of the software development lifecycle. Qualified in JEE Advanced with strong analytical aptitude. Eager to grow technically and contribute meaningfully across diverse software roles.

## EDUCATION

### B.Tech in Computer Science and Engineering

*Amrita Vishwa Vidyapeetham, Coimbatore*

Jun 2023 – Present

**CGPA: 8.31**

### Senior Secondary (CBSE)

*Sri Chaitanya Techno School, Neelambur*

Jun 2021 – Apr 2023

**XII: 90.6%**

### Secondary (CBSE)

*Kathir Vidyaa Mandhir, Neelambur*

2020 – 2021

**X: 93.8%**

## PROJECTS

### Hall Booking Portal

*Web Application Project*

- Developed a web-based booking system for college administration
- Automated conflict detection to prevent double bookings
- Implemented role-based access and admin analytics dashboard
- **Tech Stack:** JavaScript, HTML, CSS, Node.js, Express, MongoDB

### Health Monitor System

*Embedded Systems Project*

- Developed a real-time health monitoring system using STM32F401
- Measured heart rate and body temperature using sensors
- Displayed readings on LCD with LED-based alert system
- **Tech Stack:** C, STM32F401, Embedded Systems

### Pharmacovigilance Follow-up Automation System

*Ongoing Project*

- Designing architecture for automated pharmacovigilance follow-ups
- Implementing workflow automation using Zapier MCP and web interface
- **Tech Stack:** Zapier MCP, JavaScript, HTML, CSS, Node.js, PostgreSQL

## SKILLS

**Programming Languages:** C++, Python, C, SQL

**Web Development:** HTML, CSS, JavaScript, React, Node.js, MongoDB

**Machine Learning:** Supervised (Random Forest, Regression, SVM), Unsupervised (Clustering)

**Core CS:** Data Structures and Algorithms, OOP, DBMS, Operating Systems, Computer Networks, Compiler Design, Distributed Systems

## ACHIEVEMENTS & CERTIFICATIONS

- HackerRank Problem Solving – **3★**
- HackerRank C++ – **3★**
- Participated till prefinals in Melinia Hackathon – Certificate

## EXTRACURRICULAR ACTIVITIES & INTERESTS

- Interest in chess, with multiple tournament wins, including a district-level championship and a Sahodaya championship (2017)
- Interest in logical reasoning, Sudoku, and problem-solving puzzles
- Active participant on HackerRank for coding practice

## LANGUAGES

Tamil (Native) — English (Proficient)