SWASTHIKA P S

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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	Jun 2023 – Present
Amrita Vishwa Vidyapeetham, Coimbatore	**CGPA: 8.37**
Senior Secondary (CBSE)	Jun 2021 – Apr 2023
Sri Chaitanya Techno School, Neelambur	**XII: 90.6%**
Secondary (CBSE)	2020 – 2021
Kathir Vidyaa Mandhir, Neelambur	**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)