

# VASANTHI SIVASANKAR

Bachelor of Engineering in Computer Science

Poonamallee, Chennai – 56 | +91 79042 58364 | [vasutha2007@gmail.com](mailto:vasutha2007@gmail.com)

[linkedin.com/in/vasanthi-sivasankar-98b3b4290](https://www.linkedin.com/in/vasanthi-sivasankar-98b3b4290) | [github.com/VasanthiSivasankar](https://github.com/VasanthiSivasankar) | [leetcode.com/u/vasutha2007](https://leetcode.com/u/vasutha2007)



## SUMMARY

Computer Science student with strong foundations in Data Structures, Algorithms, Object-Oriented Programming and backend development. Skilled in building scalable applications using Python, Java, Spring Boot, SQL, and REST APIs, with experience in AI-powered and data-driven systems. Focused on leveraging clean architecture and modular design to drive efficient software engineering practices across real-world challenges.

## EDUCATION

**Saveetha Engineering College, Chennai** - B.E. Computer Science  
*September 2023 – Present*

**Devi Academy Senior Secondary School, Chennai**  
*April 2013 – March 2023*

Class XII: 82%

Class X: 91%

## TECHNICAL SKILLS

- Programming Languages: Python, Java, C, SQL.
- Frameworks & Technologies: Spring Boot, REST APIs, FastAPI, HuggingFace Transformers, GenAI, Prompt Engineering.
- Web Development: HTML, CSS, JavaScript, React, Node.js, NPM.
- Data Science & ML: Pandas, NumPy, Matplotlib, TensorFlow
- Databases: MySQL, PostgreSQL
- Tools & Platforms: Docker, Git, CI/CD, PowerBI, Figma, VS Code, Maven, Postman, AWS
- Core Concepts: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks, Agile Methodology, Microservices Architecture, Data Analytics

## PROJECTS

### **Real-Time Transaction Monitoring & Fraud Detection System** (*Ongoing*)

- Built scalable Spring Boot backend with MySQL for real-time financial transaction processing, implementing rule-based fraud detection for high-value and rapid-frequency anomalies.
- Developed RESTful APIs for transaction management and alert generation using layered Controller-Service-Repository architecture, improving modularity, maintainability, and scalability.

### **AI-Powered Emergency Response System**

- Designed modular data preprocessing pipelines using Python, Pandas, and SQL to clean and integrate large ICU patient datasets for predictive healthcare analysis.

- Improved workflow efficiency and data consistency for patient outcome prediction systems through structured medical record processing and analysis.

### **Blockchain-Based Command Validation System**

[Github Link](#)

- Developed a secure command validation system integrating blockchain concepts and anomaly detection for drone command authenticity.
- Designed modular data flow architecture with structured verification workflows to enhance command security and system reliability.

### **Chrome Extension for Webpage Summarization**

[Github Link](#)

- Developed NLP-powered Chrome extension using HuggingFace APIs for real-time webpage summarization with asynchronous API integration and context-aware text processing.
- Improved information accessibility through API-based summarization workflows, reducing manual content consumption effort.

## **ACHIEVEMENTS**

- Joint Secretary of Tech Society – Student-driven machine learning community with 700+ active members
- SVCE Hackathon 2025 Finalist – Developed AI + Blockchain-based command validation system for secure workflow verification.
- Organizer – Bot Battle Bash: Hosted AI-themed coding and prompt engineering challenges
- State Level Spelling Bee Qualifier
- NSO Bronze Medalist

## **CERTIFICATIONS & INTERNSHIPS**

- IBM Data Science with Python and SQL – Coursera (November 2024)
- Data Science In-Plant Training (June 2024)
- Goldman Sachs Job Simulation – Ethical Hacking with Hashcat (January 2025)
- Oracle Database SQL Specialist (November 2025) – Oracle
- Power BI Job Simulation – PwC
- SQL (Basic & Intermediate) – HackerRank

## **PROFESSIONAL SKILLS**

Problem Solving, Analytical Thinking, Team Collaboration, Leadership, Communication, Ownership Mindset.