

Vishal S

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EDUCATION

Amrita Vishwa Vidyapeetham
B.Tech in Computer Science and Engineering

Coimbatore, Tamil Nadu
Expected Graduation, April 2026

- Current CGPA: 8.46 / 10.0

SUMMARY

Motivated in computer science graduate with strong foundations in object-oriented programming, data structures & algorithms, operating systems, and database management. Proficient in front-end development using HTML, CSS, JavaScript and modern frameworks, along with back-end logic using Python, JavaScript, and SQL.

PROJECTS

Implementation various Public-Key Cryptosystem

Tech Stack: Python, HTML/CSS, JavaScript

- Developed a tool using Python for cryptographic enthusiasts, implementing the Knapsack Cryptosystem, Diffie-Hellman Cryptosystem and Rabin Cryptosystem with a user-friendly web interface for secure message encryption and decryption.
- Designed a responsive user interface with HTML, CSS, and JavaScript, integrating the Python-based cryptographic algorithm. Performed extensive testing and tuning to provide strong performance and secure data handling.

Smart Bike Sharing System with IoT Integration for Tracking and Maintenance

Tech Stack: Kotlin, Flutter, Firebase, Arduino, Android Studio

- Built a cross-platform bike-sharing application using Flutter and Kotlin, integrated with Firebase for real-time synchronization and user authentication.
- Utilized Arduino-based IoT components for GPS tracking and electronic lock control. Deployed via Android Studio with seamless interaction between the mobile app & backend with embedded hardware.

Comic and Manga Store

Tech Stack: HTML/CSS, JavaScript

- Developed an online Comic and Manga Store website using HTML, CSS and JavaScript, enabling users to browse and explore a wide collection of comics and manga.
- Focused on creating a visually appealing and responsive interface and delivering a seamless experience across all devices.

CERTIFICATES AND CERTIFICATIONS

- Certified Cyber Crime Intervention Officer (CCIO) – *Issued by ISAC*
- Certification in Professional Ethics at Workplace (CPEW) - *Issued by AICTE*
- Certified Networking Basics - *Issued by CISCO*

REMARKABLE ACHIEVEMENTS

Special Mention – **VishwaCTF 2024**

Coimbatore, Tamil Nadu

As an Individual,

Jan 2024

- Participated in VishwaCTF 2024, a renowned capture-the-flag competition, demonstrating advanced skills in cybersecurity and problem-solving.
- Utilized knowledge of exploit techniques and security vulnerabilities to solve real-world security problems and gain valuable hands-on experience.

Special Mention – **Tredence AI Hackathon**

Bengaluru, Karnataka

As a Team,

Mar 2025

- Secured 4th place in the Tredence AI Hackathon among nationwide participants, competing in a high-impact and innovation-driven environment.
- Collaborated as part of Team Nerd Herd to develop an AI-based solution, demonstrating strong teamwork, technical skills and creative problem-solving.

SKILLS

Programming: C, C++, Python, JavaScript, HTML/CSS, MySQL.

Tools: OpenCV, Matplotlib, SciKit Learn, Unix and Linux.

Known Languages: English, Tamil.