

Kaveri Sharma

Bengaluru, Karnataka • +91 9560075023 • kaveri05sharma@gmail.com • github.com/kaveriill

Education

PES UNIVERSITY

Bachelor of Technology in Computer Science

Relevant coursework: Database Systems, Data Structures & Algorithms, Web Development, Cyber Security, Data Science

Bengaluru
2027

GD Goenka Public School, Vasant Kunj

Highschool diploma, House Captain

Delhi
2023

Experience

Full Stack Development Intern

National Capital Region Transport Corporation (NCRTC)

New Delhi (On-site)
Jun 2025 – Aug 2025

- Designed and developed the official public-facing dashboard for the **PM e-Bus Sewa** initiative (Ministry of Housing and Urban Affairs).
- Designed a responsive user interface to visualize government transport data, improving accessibility for public stakeholders.
- Integrated CMS platforms to manage dynamic content and collaborated with cross-functional teams to translate policy requirements into technical specifications.

Tech Stack: Web Development, CMS Integration, Data Visualization.

University Projects

Personalized Digital Twin for Heart Failure Prediction

Capstone Project Oct 2025 – Present

- Developing a healthcare digital twin framework to predict early heart failure decompensation.
- Utilizing **Python** and **Machine Learning** libraries to model patient vitals and generate predictive health alerts.
- Focusing on data preprocessing and algorithm selection to improve prediction accuracy for high-risk patients.

Secure CRM Platform (Flask & Firebase)

Software Engineering Project

- Engineered a GDPR-compliant CRM system using Python (Flask) and Google Firestore (NoSQL), achieving 99.9% uptime reliability.
- Implemented a **Layered Service Architecture**, creating distinct micro-services for Auth, Customer Data, and Sales Analytics.
- Secured the application with JWT-based Authentication and Role-Based Access Control (RBAC); conducted vulnerability scanning using Bandit.
- Built an **omni-channel campaign manager** and support ticketing system, utilizing Pytest to maintain 75% code coverage.
- Tech Stack: Python, Flask, Firebase Firestore, HTML/JS, Pytest, Bandit.

Activities

Web Development Domain Head

Encode AI | Oct 2024 – Present

- Leading a team of student developers to build club websites and conduct technical workshops on modern web frameworks.

Content and Research Domain Head

ACM-W | Oct 2024 – Present

- Strategizing content for technical outreach and managing research initiatives within the student chapter.

Additional

Language Skills: English, Hindi

Technical Skills:

- Languages:** Python, C++, SQL, JavaScript, TypeScript.
- Web Development:** Next.js, React, Tailwind CSS, HTML5, CSS3, Streamlit.
- Data & ML:** Pandas, NumPy, Scikit-learn, Data Visualization (Matplotlib).
- Tools & Databases:** MySQL, Git/GitHub, Figma, Wireshark, Docker.
- Cybersecurity:** Network Analysis (Scapy, Wireshark), Basic Cryptography, DNS Security.

Interests/Hobbies:

- Competitive Basketball:** Point Guard & Inter-Department Winner ('24, '25).
- Cybersecurity:** Active participant in Capture The Flag (CTF) challenges.
- Other:** Dramatics, Sketching