

Kumari Vaishnavi

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Education

VIT Bhopal University

Bachelor of Technology in Computer Science and Engineering

CGPA: 8.46 | Sep 2022 - June 2026

Bhopal, Madhya Pradesh

Projects

Real-Time Device Tracking System | (Node.js, Express.js, MongoDB, Docker, Socket.IO, Leaflet.js) | [Link](#) June 2025

- Built a real-time location tracker with **Google OAuth authentication**, enabling live, secure device monitoring for 50+ sessions.
- Achieved **<1s event latency** using **Socket.IO** and rendered live trails on Leaflet.js maps with **accuracy filtering ($\leq 100\text{m}$)** to reduce GPS noise.
- Engineered a **MongoDB-backed backend** to store **timestamped location logs**, supporting session replay and audit trails.
- Dockerized** the full-stack app achieving 100% build consistency and 99.9% uptime through containerized deployment.
- Deployed** via container-based infrastructure on **Render** for consistent builds and reliable hosting.
- Secured routes with Passport.js, cookie sessions, and **middleware guards**; delivered a responsive UI with real-time feedback.

SafeKeep | (Next.js, TypeScript, TailwindCSS, Appwrite, ShadCN UI, Framer Motion) | [Link](#) March 2025

- Developed and deployed a secure file storage system with **OTP-based login**, reducing onboarding drop-off by **~30%**.
- Engineered a secure backend with Appwrite, implementing role-based permissions and JWT-authenticated sessions to protect user data.
- Supported up to **2GB of file uploads** per user via bucket configuration and client-side validation.
- Enabled **shareable links** with access control, maintaining 100% security during concurrency tests.
- Built scalable fuzzy search with preview overlays and real-time filtering under **100ms** across large file datasets.
- Modularized code into **20+ reusable components**, boosting dev speed by 40% and achieving **95+ Lighthouse scores** through scroll optimization and lazy loading.

Technical Skills

Languages: C++, Java, Python, JavaScript, HTML/CSS, TypeScript

Tools/Platforms: Docker, Git, GitHub, Postman, Jupyter Notebook, VS Code

Libraries/Frameworks: Node.js, Express.js, Next.js, React.js, Bootstrap, Tailwind CSS, ShadCN UI, Leaflet.js

Databases & APIs: MongoDB, MySQL, REST APIs, Appwrite

Core Skills: Object Oriented Programming, Data Structures and Algorithms, Machine Learning, Data Analysis

Hackathons

- Zelestra x AWS ML Ascend Challenge | Team Lead | [Link](#) June 2025**
Forecasted solar energy generation using real-world datasets and ML models (LightGBM, CatBoost, Keras); achieved **89.86 Phase 1 score** using AWS-powered pipelines and advanced feature engineering.
- Amazon Smbhav Hackathon (Top 0.1%) | Core Module Owner | [Link](#) November 2024**
Built and deployed EcoExportSuite, an **AI-powered export platform** with a smart chatbot, real-time shipment tracker, document validator, and rate comparator — **streamlining international trade** workflows.

Certifications

The Complete Full-Stack Web Development Bootcamp – Udemy | June 2025

SQL (Basic & Intermediate) – HackerRank | June 2025

Deloitte Data Analytics Job Simulation – Forage | June 2025

Ethnus MERN Full Stack – Ethnus | April 2025

BlockChain Fundamentals and Developer – IBM | April 2025