Ayushman Kumar Singh

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Education

Vellore Institute of Technology, Bhopal   Sep 2022 - May 2026
B.Tech in Computer Science & Engineering (minors in Cyber Security)   *8.69/10 CGPA*

Swaraj India Public School, Kanpur   May 2022
12th Standard, ISC   *81%*

Swaraj India Public School, Kanpur   May 2020
10th Standard, ICSE   *82%*

Work Experience

Gagahealth Private Limited   Oct 2024 – Dec 2024
Android Front End Developer Intern   *Remote*

- Developed and maintained key features for a live mobile application using the **Flutter** framework and Dart.
- Redesigned the user onboarding flow, which **increased new user retention by 25%**.
- Integrated third-party **REST APIs** to enable seamless client-server communication and data synchronization.
- Diagnosed and resolved over **15 UI/UX bugs**, improving application stability and user experience.
- Collaborated with backend developers and designers using **Git** for version control in a professional team environment.

Projects

Sentiment Adventure: A Gamified Journey into AI   [Live Demo](#)

- Developed a full-stack, gamified web application to teach the core concepts of AI (Sentiment Analysis) to middle school students through a story-driven game.
- Built a modern front-end using **React**, **Tailwind CSS**, and **Framer Motion** to create a polished and highly interactive user experience.
- Engineered the backend API with **Node.js** and **Express.js**, and integrated **MongoDB Atlas** for persistent user progress tracking across 8 distinct learning levels.
- Managed the end-to-end deployment on **Vercel** (frontend) and **Render** (backend), demonstrating a full MERN stack development cycle.

Serverless Background Removal Web App

- Engineered a full-stack asynchronous web application on **AWS** that uses an AI model to automatically remove the background from user-uploaded images.
- Implemented an **event-driven, serverless architecture** using S3 triggers and Python **Lambda** functions for scalable, non-blocking image processing.
- Containerized the AI model using **Docker** and deployed it via **AWS ECR**, demonstrating knowledge of modern cloud-native deployment.

Technical Skills

Languages: Python, Java, JavaScript, Dart, SQL
Backend: Node.js, Express.js, Flask
Frontend: React, Flutter, HTML, CSS, Tailwind CSS, Framer Motion
Clouds & Databases: AWS (S3, Lambda, ECR), MongoDB (Atlas), MySQL, Vercel, Render
Developer Tools: Git, GitHub, Docker, Postman, VS Code, Android Studio

Achievements & Leadership

Student Coordinator – Cyber Safety Hackathon   Jan 2025 – Sep 2025
Madhya Pradesh Police

- Led the end-to-end planning and execution of a national hackathon, managing all logistics for over **350 participating teams**.

Fellow, Make A Difference (MAD)   Mar 2025 – Present

- Selected for a competitive fellowship to mentor underprivileged youth, providing one-on-one guidance on academics and life skills.

Certifications

- IBM GenAI using Watsonx (Apr 2025)
- EC-Council Certified Ethical Hacker (CEH) (Dec 2024)
- Google IT Support – Computer Networking (Dec 2023)