

Vaibhav Kumar

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Education

VIT Bhopal University

B.Tech in Computer Science CGPA: 9.40

St. Gregorios Sr. Sec. School

Class 12: 94.6% — Class 10: 92.0%

September 2023 – May 2027

Bhopal, MP, India

April 2018 – March 2023

Udaipur, Rajasthan, India

Work Experience

AlgoUniversity (YC S21)

June 2025 – Present

SWE Co-Op Intern

Remote

- Engineered a scalable **Online Judge platform** using **Django**, **HTML/CSS**, and **SQLite3**, containerized with **Docker** and deployed on **AWS EC2**.
- Orchestrated a secure code execution engine leveraging Python's **subprocess** module and **container isolation**, supporting Python, C++ and Java with **100+ daily code submissions**.
- Implemented **real-time output evaluation**, role-based access control, **reducing manual grading time by 80%**.
- Fabricated custom admin dashboards for monitoring platform metrics and managing roles, enhancing maintainability.
- Streamlined **CI/CD pipelines** with **GitHub Actions** and **Docker** for continuous testing and deployment; boosted deployment frequency by **40%** through automated testing and rollouts.

Projects

HridayVayu – Smart Asthma Care System

February 2025 – Present

Tech Stack: Python (Flask), Machine Learning, Sensor Integration

- Devised an AI-powered asthma prediction system leveraging ML and sensor integration.
- Implemented real-time alert system and analytics dashboard for early detection and patient monitoring, reducing average asthma detection latency by **30%**.

CyberBuddy – AI Cybersecurity Chrome Extension

February 2025

Tech Stack: Python, Google Gemini API, Chrome Extension API, ML, HTML/CSS

GitHub

- Built a phishing detection Chrome extension using Google Gemini API; achieved over 95% detection accuracy across 1,000+ URLs/day.

Father's Advice – Mentor Matching Platform

September 2024 — Present

Tech Stack: Python (Flask), SQL, HTML/CSS, JavaScript, Graph Algorithms

- Formulated a graph-based mentor-mentee matching algorithm, increasing pairing accuracy by **30%**.
- Created a scoring model that enhanced recommendation precision by 25%, increasing successful mentor matches.

Full Stack Practice Website

November 2024

Tech Stack: Flask, HTML/CSS, JavaScript, MySQL

GitHub — Live

- Constructed a secure full-stack app with JWT-based authentication and session handling.
- Integrated REST APIs and MySQL to streamline data transactions and user operations

Technical Skills

- Languages:** Python, C++, Java, HTML, CSS
- Frameworks:** Django, Flask, Tkinter
- Tools:** Docker, Git, Postman, VS Code, Jupyter Notebook
- Databases & Cloud:** MySQL, SQL, AWS
- Data & AI Tools:** NumPy, Pandas, Matplotlib, Google Gemini API
- Concepts:** DSA, OOP, REST APIs

Certifications

- Oracle** - Java Certified Foundations Associate (July 2025)
- Postman** – API Fundamentals Student Expert (July 2025)
- IBM** – SQL and Relational Databases 101 (March 2025)
- IBM** – Python 101 for Data Science (March 2025)
- Finlatics** – Data Science with Python (February 2025) – Finlatics Data Science with Python (February 2025)
- Coursera** – Bits and Bytes of Computer Networking (November 2024)

Co-Curricular

Cisco Community, VIT Bhopal

November 2024 – Present

Core Technical Member

- Organized hands-on workshops and collaborated in multi-functional development teams.

Deloitte Australia – Forage Virtual Internship

June 2025

Data Analytics Simulation

- Completed a professional case simulation involving **forensic data analysis** and **business intelligence**.
- Analyzed financial data using Excel and created Tableau dashboards.
- Achieved 90%+ accuracy in forensic classification of transactions.

Honors & Awards

- Spearheaded top **1.4%** selection among **40,000+** applicants for **AlgoUniversity Accelerator** (May 2025)
- Selected for elite Graph Algorithms Bootcamp by Codeforces Master (Mar 2025)
- Achieved Top 3 rank in Class XII (CBSE, 2023) with **94.6%** in PCM stream

Extras

Languages: Hindi (native), English (fluent), learning Japanese & German

Hobbies: Actively exploring emerging technologies like AWS and DSA; enjoy strategic gaming (Clash of Clans - TH12) and sci-fi/thriller films (e.g., Interstellar)