

Tanay Kashyap

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Summary

Detail-oriented Computer Science student with expertise in cloud computing, automation, and full-stack development. Proficient in Python, Flask JavaScript, AWS, Selenium, RestAPI, and MySQL. Strong problem-solving abilities with hands-on experience in software development, API design, and system optimization. Passionate about creating scalable, high-performance applications and collaborating on cross-functional projects under tight deadlines.

Education

Bachelor of Technology in Computer Science

VIT Bhopal University, Major in Computer Science Core

Sep 2022- July 2026

Currently in Penultimate year, CGPA = 8.76

Skills

Languages: C/C++, Python, Java, JavaScript

Web Development: ReactJS, Tailwind CSS, Bootstrap CSS, NodeJS, Django

Databases: MySQL, SQLite, PostgreSQL

Cloud and Automation: Pytest, Selenium, AWS, GTests

Tools and Platforms: Git, Github, Flask, Puppeteer, Netlify, Linux, Restful APIs, Docker

Projects

The Insider

- *Tech Stack:* Flask, Python, NumPy, Pandas, OpenAI API, SQL (SQLite), Plotly, REST API, Matplotlib, Seaborn
- Developed a Flask-based AI-driven dashboard that automates data cleaning, exploratory analysis, and insights generation using LLM-powered APIs.
- Automated data preprocessing reduced manual effort by 60%, improving efficiency for data analysts.
- Enabled non-technical users to gain AI-driven insights through an interactive dashboard and REST API, reducing analysis time by 50%.

Cloud Load Balancer

- *Tech Stack:* Java, JavaFX, Apache Maven, Docker, NetBeans, AWT, SQLite
- Used Java Maven to develop a cloud storage simulator allowing users with CRUD functionalities and to upload their files to cloud storage while restricting access to different users.
- Developed admin and user two separate panels with different levels of access and responsibilities.
- Improved load balancer efficiency by implementing FCFS and SJN algorithms by 15%.
- Enhanced performance and added detailed view functionality, increasing workflow efficiency by 25% also added 30 ms delay to simulate real life latency.
- Introduced file chunking and increased security by 35% using AES encryption to encrypt and decrypt passwords and file chunks..

Accommodate Me

- *Tech Stack:* Python, Selenium, BeautifulSoup, Flask, MySQL, HTML, JavaScript, CSS Frameworks
- Engineered a Selenium-based automation tool to search for the best accommodations in a city, integrating data extraction, storage, and analysis, including 1000+ cities.
- Amplified the number of accommodation listings analyzed by 150%, providing a more comprehensive dataset for decision-making.
- Eliminated 90% of manual errors through automated data extraction and validation.

- Integrated data extraction, storage, and analysis, accelerating search speed by 50%.

Team GarVIT Website

- *Tech Stack:* ReactJS, Bootstrap, Tailwind CSS, Netlify
- Innovated and built a fully functional website from scratch, enhancing the team's online presence.
- Secured a 20% increase in the number of sponsors through an improved web presence.
- Deployed the project using Netlify, achieving over 270 unique visitors in the past six months.

Leadership & Achievements

Leetcode: Solved 500+ Data Structure and Algorithm questions. Achieved Global ranking of 1700.

Solved 15+ System Design Specific questions.

Completed 365+ days of coding.

Team GarVIT: Vice Captain, Head of Software Development Cell.

Designed and Coded RTDS for Electric ATV and won International Rank 1.

Open-Source Contributions: Active Contributor in GSSOC 24, Contributed to projects:

- GameZone- Spell Bee game using HTML, CSS and JavaScript
Crafted Sand Tetris game using HTML, CSS and JavaScript.
- Resumave- Used ReactJS to apply limits on numbers of characters in Summary Section and reduced garbage request conversion.

Certifications

- Cloud Computing (NPTEL) - Received Silver medal in Course examination
- Computer Networking (Google)
- Ethical Hacking on Termux

Relevant Courses

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|--------------------------------|---------------------------------------|
| ● Database Management | ● Programming in Java |
| ● Internet and Web Programming | ● OOPs with C++ |
| ● Python Programming | ● Data Structures and Algorithm |
| ● Computer Networks | ● Operating System |
| ● Software Engineering | ● Microprocessor and Microcontrollers |