

SANCHIT GUPTA

Software Engineer with expertise in full-stack applications, cloud computing, and scalable microservices architecture. Passionate about optimizing system performance, implementing authentication solutions, and leveraging data-driven insights to enhance application efficiency. Seeking opportunities to apply my technical skills and contribute to an innovative team.

Work Experience

Software Development Engineer (Full-Stack Developer), InspektLabs

March 2024 — Present

- Developed and optimized backend services using **NodeJS, Python, Flask, and React JS**, enhancing performance and scalability,
- Deployed **Prometheus and Grafana** logging systems, enabling real-time monitoring and reducing system downtime by **15%**.
- Implemented **Auth0 SSO authentication** with **Python** and **Azure AD**, onboarding **100+ users per week** with seamless access.

Backend Developer SDE - II, BLKBOX.ai

August 2023 — February 2024

- Designed a **scalable Node.js and Flask microservices architecture** and implemented **AWS Lambda**, reducing API response time by **50%**.
- Integrated **Postgres** database with **Node.js** and **Python** microservices on **AWS** infrastructure, utilizing **Redis** and **Celery** to enhance system speed by **40%**.
- Led a **microservices deployment** handling **500,000+ transactions daily**, increasing scalability by **35%**.

Software Development Engineer Intern, GeeksforGeeks

June 2023 — August 2023

- Developed backend APIs for an educational coding platform using **Django REST Framework, ReactJS, XML and jQuery**, enhancing authentication with **JWT and custom validations**.
- Automated test cases using **Pytest**, increasing code coverage from **50% to 80%** and enhancing overall test efficiency.
- Rapidly iterated on product features by optimizing **API endpoints and database queries**, significantly enhancing performance and user engagement on the **GeeksforGeeks Community Page**.

Backend Developer Intern, Solytics Partners Pvt. Ltd.

May 2022 — May 2023

- Optimized application performance by **40%** using **Agile methodologies, Django, Flask, and CI/CD pipelines**.
- Designed and structured **MongoDB and MySQL databases**, reducing application response time by **15%**.
- Implemented **automated testing scripts and Selenium-based web scraping** for faster and more accurate data analysis.

Projects

Track the Missing Child

August 2022 — January 2023

- Developed a **facial recognition-based missing child detection system**, reducing report-to-rescue time by **47%**.
- Scraped child data from **government websites using Selenium and Scrapy**, stored in **Elasticsearch**, and matched it with live face recognition software to generate alerts.

Plant Disease Detection System

October 2021 — February 2022

- Designed an **AI-powered plant disease detection system** in **Python**, identifying **97% of diseases** and improving farm productivity by **35%**.
- Optimized data extraction, analysis, and monitoring with **LLM models** and **AI/ML algorithms**, reducing detection time by **84%**.

Achievements

- Global Rank 438** in **TCS CodeVita Season 10 (May 2022)**.
- Global Rank 1456** in **Google Hash Code 2022 (Team Techlemures)**.
- Global Rank 2841** in **Google Kickstart 2020 (Round H)**.
- Semifinalist** in **Code Gladiators 2019** by **TechGig**.
- Earned **Python** and **Problem-Solving Skills Certification** from **HackerRank**.

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☁ cloudskillsboost.google/sanchit

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Education

PSIT College of Engineering

B. Tech with Computer Science

August 2019 — June 2023

Theosophical Inter College

PCM with Computer Science

May 2019

Skills

- Data Structure and Algorithms
- Cloud Computing
- Machine learning
- Programming Languages
 - Python
 - C++
 - Ruby on Rails
 - Java
 - Golang
- Technologies familiar With
 - Web Development
 - MySQL
 - Web 3.0
 - Amazon Web Services (AWS)
 - Google Cloud Platform (GCP)

Certificates

- Architecting with Google Compute Engine (GCP) </>
- Microsoft Certified: Azure Fundamentals </>
- Web Design for Everybody: Basics of Web Development & Coding </>

Interests / Hobbies

- Reading Novels
- Playing Badminton
- Solving Puzzles