SANCHIT GUPTA

Searching for favourable career opportunities that would assist me in gaining greater practical excellence in the IT and software industry and where I can put my analytical and technical skills to contribute to the growth of the organization.

Work Experience

Backend Developer SDE - I, BLKBOX ai
August 2023 — Present

- Developed and implemented a highly scalable Node JS and Flask microservices architecture for the backend, resulting in a 50% reduction in response time.
- Implemented integration of Postgres database with Node JS and Flask microservices, leveraging AWS infrastructure and used Redis and celery to improve system speed by 40%.
- Engineered and implemented a microservices architecture that handled 500,000+ transactions daily, leveraging Node.js and Docker, which increased system scalability by 35% and improved deployment efficiency.
- **Tech Stack**– Node JS, Python, Flask, AWS, PostgreSQL, Redis, Celery and Selenium

SDE Intern, GeeksforGeeks
June 2023 — August 2023

- Developed a robust back-end API for a trading application with a REST framework in Django, implemented authentication using JWT, improved user experience with custom validations, and increased performance by 40%.
- Developed automated test cases with Python unit testing framework, improved test code coverage from 60% to 80%, optimized code logic for improved performance and efficiency.
- **Tech Stack**– Python, Django, Django REST Framework, AWS, PostgreSQL

Backend Developer Intern, Solytics Partners Pvt. Ltd
May 2022 — May 2023

- Improved app performance by 40% by modifying database queries and Django templates, resulting in faster loading times and enhanced scalability.
- Designed multiple databases and structured data to reduce application response time by up to 15% and created automated testing scripts for faster data analysis and troubleshooting.
- **Tech Stack**– Python, Django, Django REST Framework, AWS, Git/GitHub, Jenkins, Prometheus, Grafana, PostgreSQL, Elasticsearch, Scraping, Scrapy and Selenium.

Full Stack Web Developer, UChamp one
February 2022 — April 2022

- Developed a web interface for hundreds of users, achieving maximum uptime of 99.99%, creating a mobile-responsive design, and scaled the application to accommodate growth from 100 to 20,000 active users in 12 months.
- Implemented tools to monitor and analyze web application performance, improving overall web application performance by 40%.
- **Tech Stack**–HTML, Rest Framework, Spring Boot, AngularJS and PostgreSQL.

Projects

Track the Missing Child
August 2022 — January

- Developed a missing child detection system with facial recognition capabilities, resulting in a 47% decrease in time from report to the rescue.
- Scrap children's data from Govt. website with Selenium and scrapy and store it in Elasticsearch and then match it with live face recognition software and generate an alert to nearest police station and child parents with the GPS location of the cameras.
- **Tech Stack**–Face recognition, Elasticsearch, Scraping with Scrapy and Selenium, CNN, Python, Keras, Matplotlib, Sklearn, Geoloc and Twilio.

Plant Disease Detection System
October 2021 — February 2022

- Spearheaded the development and implementation of an AI-based plant disease detection system that identified 97% of diseases, leading to the optimization of crop management and a 35% increase in farm productivity
- Dramatically reduced 84% of the time required for disease detection and diagnosis by automating data extraction, analysis, and monitoring using AI and ML algorithms.
- **Tech Stack**– Python, Keras, Matplotlib, Sklearn, TensorFlow, NumPy and Argparse.

Achievements

- Secured Global Rank of 438 in TCS CodeVita Season 10 (May 2022).
- Secured Global Rank of 1456 in Google Hash Code 2022 (Team Techlemures).
- Secured Global Rank of 2841 in Google Kickstart 2020 (Round H).
- Semifinalist, Code Gladiators 2019 by TechGig.
- Completed Python and Solving Problem Skills certificate from Hackerrank.

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Education

PSIT College of Engineering
B. Tech with Computer Science
2019-Present

Theosophical Inter College
PCM with Computer Science
2018-2019

Key Skills

- Data Structure and Algorithms
- Cloud Computing
- Machine learning
- Programming Languages
  - C++
  - Python
  - Java
- Familiar With
  - Web Development
  - Metaverse
  - Web 3.0

Certificates

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

Interests / Hobbies

- Reading Novels
- Playing Badminton
- Solving Puzzles