SANCHIT GUPTA

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Software Engineer with expertise in full-stack applications, cloud computing, and scalable microservices architecture. Motivated about optimizing system performance, implementing authentication solutions, and leveraging data-driven insights to enhance application efficiency.

Education

- **PSIT College of Engineering,** B. Tech with Computer Science | Uttar Pradesh, India — June 2023
- **Theosophical Inter College,** PCM with Computer Science | Uttar Pradesh, India — May 2019

Experience

Software Development Engineer (Full-Stack Developer), InspektLabs | Remote — 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 | Remote — August 2023 — February 2024

- Projected a **scalable Node.js and Flask architecture** and programmed **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 | India — 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 Private Limited | India — May 2022 — May 2023

- Optimized application performance by **40%** using **Agile methodologies, Distributed Systems, 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.

Skills

Languages	Python, C/C++, Java, Ruby, Golang, HTML, CSS, JavaScript, NodeJS, PHP, React.js, Git, Bash, Shell, CUDA, Vim
Frameworks	Flask, Django, Django Rest Framework (DRF), Spring Boot, Ruby on Rails, Angular, Next.js, PyTorch, Apache Spark
Software	Linux, TensorFlow, Docker, OpenCV, GitHub, Cypress, Postman, Swagger, Nginx, Gunicorn, Grafana, Prometheus
Databases	PostgreSQL, MongoDB, MYSQL, Redis (Cache, Sessions), ElasticSearch, BigQuery, DynamoDB, MariaDB
CI/CD and Cloud	Amazon Web Services, Google Cloud Platform, Microsoft Azure, DigitalOcean, IBM Cloud, Jenkins, CircleCI, Heroku

Certifications

- **Architecting with Google Compute Engine,** Google Cloud — </>
- **Microsoft Certified: Azure Fundamentals,** Microsoft — </>
- **Web Design for Everybody: Basics of Web Development & Coding,** University of Michigan — </>

Projects

Track the Missing Child — August 2022 — January 2023

- Built 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

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

Archivements

- **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)**.
- **Semi-finalist** in **Code Gladiators 2019 by TechGig**.
- Earned **Python** and **Solving Problem Skills Certification** from **HackerRank**.