

SIDDHARTH TRIVEDI

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SUMMARY

Software Developer with experience in designing, building, and optimizing backend systems. Proficient in Python, Django, and Go, with a strong understanding of relational databases, transactions, and system scalability. Passionate about applying technical skills to real-world.

EMPLOYMENT

Sarjen Systems Pvt. Ltd., Software Developer Ahmedabad, India Jan 2022 – Dec 2022

- Designed, developed, and maintained RESTful APIs using Python and Django, providing backend services that power scalable applications across multiple systems.
- Optimized backend systems for high availability, ensuring minimal downtime and optimal performance by implementing robust monitoring and alerting mechanisms.
- Led efforts in building efficient data flow mechanisms, ensuring seamless communication between services through well-defined API contracts.
- Worked with PostgreSQL, enhancing database design, improving transaction handling, and ensuring data integrity in a distributed system environment.
- Developed and integrated caching mechanisms with Redis, optimizing response times and reducing database load, contributing to a 30% improvement in system performance.

Intrisol Technologies Pvt. Ltd., Software Developer Intern Ahmedabad, India Sept 2021 – Dec 2021

- Developed backend services and APIs using Python and Flask, designed to handle data processing and analytics workloads with a focus on scalability and reliability.
- Implemented real-time data processing logic that collected and processed large volumes of transaction data, providing users with timely insights and reports.
- Automated deployment and scaling workflows using Docker, reducing the manual intervention required for application updates and improving the consistency of deployments.
- Worked alongside senior engineers to troubleshoot performance issues and implementing solutions to improve application responsiveness.

PROJECTS

Scalable Cloud-Based Web Application (Java, Spring Boot, AWS)

- Designed and implemented a secure and scalable backend system using Spring Boot.
- Utilized AWS services (ECS, RDS, S3) for deployment and ensured high availability.
- Integrated PostgreSQL for structured data storage and Redis for caching.

AI-Powered Fraud Detection System (Python, Flask, Docker, PostgreSQL)

- Developed Flask-based REST APIs for real-time fraud detection.
- Integrated machine learning models (Random Forest, Autoencoders) with SMOTE for data balancing.
- Deployed using Docker and optimized with Nginx for high availability.
- Stored transactional logs and fraud detection results in PostgreSQL and AWS RDS.

Dynamic API Rate Limiting System (Python, Flask, Redis)

- Built a dynamic API rate-limiting system to manage traffic effectively.
- Implemented token bucket and sliding window algorithms for request rate control.
- Deployed on AWS ECS with auto-scaling and optimized caching strategies.

EDUCATION

Georgian College – Barrie, ON Jan 2023 – Apr 2024

Post Graduate Diploma in Artificial Intelligence & Big Data Analytics

LDRP Institute of Technology and Research – Gandhinagar, India Jun 2018 – May 2022

Bachelor of Engineering | Computer Engineering

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, Java, C++.

Frameworks & Tools: Django, Django Rest Framework, Flask, React.js, Node.js, PostgreSQL, Redis, Pandas, NumPy. Cloud & DevOps: AWS (ECS, Lambda, S3, RDS), Docker, Kubernetes, Terraform, CI/CD Pipelines.