

ARPIT PATEL

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SKILLS

- **Languages:** Python, Go, Java, C++, SQL, PySpark
- **Frameworks:** Django, Flask, FastAPI, Spring boot, Angular
- **Databases:** PostgreSQL, MongoDB, Redis, TiDB, Prometheus, ScyllaDB, Clickhouse
- **Tools and Technologies:** Docker, Kubernetes, AWS, GCP, CI/CD, Kafka, RabbitMQ, SQS, Grafana, Celery, Airflow, Google BigQuery, Git, Temporal, Elasticsearch, Terraform

EXPERIENCE

- **Setu** *Bengaluru, India*
Senior Software Engineer *Nov 2023 - Present*
 - **Account Aggregator Gateway:** Optimized REST APIs using **Python, Flask, and MongoDB** by introducing async task processing, reducing p99 latency from **800ms to 150ms**.
 - Refactored the auto data fetch module, enhancing readability, maintainability, and supporting **3x scale** with the existing compute resources.
 - Implemented dynamic FIP(Financial information provider) updates feature using **Prometheus and Grafana** real-time metrics, improving data fetch success by **30%**.
 - Implemented chunking in the AutoFetch feature to enable retrieval of multi-year financial data within FIP limitations, increasing data retrieval success by **35%**.
 - **Transaction Service:** Managed **Golang** based transaction service, eliminating data duplication across applications and reducing costs by **40%**.
 - Streamlined the **CI/CD** pipeline with multi-stage **Docker** builds, cutting build time by **50%**.
 - **Temporal Cluster Management:** Managed the **Temporal** service in **Kubernetes**, achieving a **30%** performance improvement through load testing and config tuning.
 - Provided mentorship to junior developers and actively participated in code reviews to maintain high code quality and promote a culture of continuous learning.
- **Delhivery** *Noida, India*
Software Engineer *May 2022 - Nov 2023*
 - **Reporting web app:** Led the development of a **multi-tenancy** analytics web app using Flask, PostgreSQL, Celery, Kubernetes, ensuring strict data isolation and reducing data scan costs by **25%**.
 - Built a data scan service using **Redis** cache for monitoring user query limits, optimizing resource use.
 - Developed a **Kafka**-based user sync service, enabling real-time user creation in the Reporting app and GCP.
 - **Datamart:** Migrated Datamart from **PostgreSQL to TiDB**, saving **\$400k** annually by improving database performance.
 - Tuned infrastructure utilization, reducing costs by **\$60k** per year.
 - Managed a self-hosted TiDB cluster in **GCP**, performing performance tuning, query optimization, and implementing connection pooling.
 - Created a pipeline monitoring microservice using **Java spring boot**, boosting alert accuracy from **60% to 98%**.
- **AwaazDe Infosystem** *Ahmedabad, Gujarat*
Software Engineer *May 2020 - April 2022*
 - **Interactive Voice Response:** Developed **Python/Django** modules with **Celery and RabbitMQ**, scaling voice call scheduling capacity from **1M to 8M+** calls/day.

- Refactored the test suite, enhancing execution speed by **10x** and improving code coverage.
- o **Reporting Framework Implementation:** Implemented a reporting framework from scratch using **AWS RDS, S3, Glue, and Athena** to support various analytical dashboards and raw reports for end-users.
- Employed cost-cutting techniques and re-designed the code structure, resulting in annual savings of **\$25k**.

- **AwaazDe Infosystem**

Ahmedabad, Gujarat

Software Engineering Intern

Jan 2020 - April 2020

- o Built a full-stack web application using Django and Angular for bulk SMS, integrating third-party APIs.
- o Created Python scripts to boost report **analysis speed by 30%**.

EDUCATION

- **DA-IICT**

Gandhinagar, Gujarat

B.Tech in Information and Communication Technology; CPI: 7.47

Aug. 2016 – May. 2020

- **School of achiever**

Gandhinagar, Gujarat

Higher Secondary School Examination (GSEB); Percentage: 95.33%

June. 2014 – April. 2016

AWARDS AND ACHIEVEMENTS

- **Above & Beyond Award:** Received the award in Delhivery for accelerating migration process of pipelines and migrate all materialized views using airflow within 1 week.
- **Winner of Google GenAI Hackathon**