

Anaswara T Rajan

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EXPERIENCE

Senior Software Engineer (4yrs+) - Python Backend, Data Platform

Aug 2021 - Sep 2025

McKesson Compile

Bangalore

- Engineered and scaled multiple **REST APIs** using **Django REST Framework**, reduced latency through **memory profiling, ORM query optimizations, strategic caching** and monitoring.
- Augmented and maintained a 12+ year-old **Python/Django codebase** of the internal data platform, performed **timely dependency management**, fulfilled support requirements for libraries/tools housed by platform and purged/refactored irrelevant modules.
- Led decoupling efforts for separating Python libraries/services from parent code-base using **Tach**, significantly **improving code health and manageability**.
- Built and enhanced key customer-facing applications, including the **Centralized Customer Dashboard** and **Data Dictionary app**, using Django, Django REST Framework and **Nuxt.js**. Collaborated closely with Product teams to brainstorm, discuss complex features and smooth execution.
- Leveraged **Celery/RabbitMQ** to set up **asynchronous workflows** for automated email notifications, long running data processing tasks and offloading network traffic between chatty services. Implemented apt retry logic and observability for high system throughput and reliability.
- Revamped the platform's **authentication systems** in Django. Implemented and deployed **Multi-Factor Authentication (MFA)** and custom OTP flows using a staggered release strategy, resulting in **zero customer issue tickets and seamless adoption**.
- Managed risk and ensured system integrity by conducting comprehensive **security and unit/integration testing**, resolving critical OWASP vulnerabilities (using Veracode) to ensure strict PHI/HIPAA compliance for healthcare data offerings.
- Created an internal **data governance tool (Django/SQLAlchemy)** to track data provisioned in Snowflake. This tool streamlined compliance checks and contract adherence, **reducing the time spent by the Data Operations team on provisioning by over 75%**.
- Worked closely with customer success enabling **quick turnaround** on resolving **customer issue tickets and root cause analysis**. Active involvement in product design phases to assess technical feasibility in early-stages.

Software Developer Intern

May 2020 – July 2020

Compile

Remote

- Developed a full-stack **NDC-HCPCS lookup tool** using **Django REST Framework** and Nuxt.js, providing users with quick search and export functionality for drug data.
- Built and optimized the underlying ETL pipeline using memory profiling. Setup monitoring and alerts to ensure the daily ingestion of clean, up-to-date data to Postgres DB.

TECHNICAL SKILLS

Languages: Python, Golang, JavaScript, TypeScript, Bash, SQL

Frameworks/ Libraries: Django, Django REST Framework, FastAPI, Pandas, NumPy, Scrapy

Tools: Redis, Celery, Kafka, Docker, Docker Compose, Pytest

Databases: Postgres

PROJECTS

Comlink | *Go, Gin, Kafka, Postgres, Distributed event streaming*

[Github](#)

- A Messaging API designed for 1-to-1 conversations. Gin API handles send/read messages
- An async worker utilizing a Kafka queue service to reliably store messages to a PostgreSQL database. Helps high-throughput during mass communications

Hodor | *Python, Docker, Redis, FastAPI, Distributed rate limiting*

[Github](#)

- While autoscaling APIs in distributed systems it can be hard to enforce global rate limits.
- The project explores ways to solve problems like race conditions and thundering herd in distributed rate limiting.

RSS Feed aggregator | *Go, Echo, Vue.js*

[Github](#)

- A Vue.js web app that fetches, aggregates, and renders RSS feeds from multiple (given) sources.

EDUCATION

Government Engineering College Palakkad

Bachelor of Technology in Computer Science and Engineering

Kerala, India

Aug 2017 - Aug 2021