

Anay Vyawahare

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Summary

Backend Engineer with 1+ year of experience in backend development, API design, and building scalable production systems and automation pipelines in Python and FastAPI. Hands-on with AWS (Lambda, DynamoDB, S3, CloudWatch) and actively deepening expertise in cloud infrastructure, distributed systems, and system design. Known for high ownership and translating business problems into reliable backend architecture.

Work Experience

The Lead Market (TLM)

Jan 2025 - Present

Software Engineer

Nagpur, India

- Architected an automated lead generation pipeline (Python, REST APIs, LLM-based extraction, LinkedIn and Google Maps integrations) that processes ZIP code inputs to produce 1,500 to 2,000 verified prospects daily; replaced a manual research team, turning a multi-day research process into an automated daily run.
- Led a 3-engineer team migrating 6M+ production records from DynamoDB to PostgreSQL to reduce database costs and enable relational queries; designed the PostgreSQL schema from scratch, wrote migration scripts, and executed data cleaning and migration.
- Independently architected and shipped a distributed email warmup system (AWS Lambda, DynamoDB, EventBridge) handling 200 to 250 mailboxes daily with behavioral simulation logic; improved inbox placement by 20 to 30% and contributed to a measurable lift in outbound reply and meeting rates.
- Built Slack-based observability for core backend pipelines, pushing real-time status, metrics, and error alerts into team channels; removed the need for operations to read raw logs, cut engineering interruptions for routine checks, and measurably improved ops team productivity on day-to-day monitoring.

Projects

API Rate Limiter

github.com/Its-Anay/api-rate-limiter

Python, FastAPI, Valkey, Docker

- Built a production-ready rate limiting library implementing four algorithms: Fixed Window, Sliding Window, Token Bucket, and Leaky Bucket, supporting up to 10,000 concurrent requests without race conditions.
- Each algorithm runs as an atomic Lua script on Valkey, eliminating race conditions under concurrent load.
- Supports both global middleware and per-route dependency injection for flexible integration.
- Includes unit tests and is fully Dockerized for local development and deployment.

Weather Aggregator API

github.com/Its-Anay/weather-api

Python, FastAPI, Redis, RabbitMQ, Docker

- Built a REST API that aggregates weather data from external APIs and returns clean structured responses, with Redis caching (TTL-based) reducing external API calls by approximately 80% for repeated city queries.
- Integrated RabbitMQ to offload data fetching to asynchronous workers, enabling non-blocking API responses and independent scaling of fetch workers.
- Designed a producer-consumer architecture with background workers handling retries and fault tolerance for upstream API failures.
- Containerized the full system with Docker and implemented graceful error handling for upstream failures.

Skills

- **Languages:** Python, SQL
- **Frameworks & APIs:** FastAPI, REST APIs, LLM APIs
- **Databases:** PostgreSQL, DynamoDB, Redis/Valkey
- **Cloud & Messaging:** AWS (Lambda, EC2, S3, DynamoDB, EventBridge, CloudWatch), RabbitMQ
- **DevOps & Tools:** Docker, Git, GitHub, CI/CD (GitHub Actions), Linux

Education

Symbiosis Institute of Technology

July 2021 - May 2025

Bachelor of Technology in Computer Science