Matthew Wisdom

Backend Engineer with experience building and maintaining production APIs, data pipelines, and high-concurrency backend systems for SaaS,FinTech and AI products. Strong background in Python and Go, relational and NoSQL databases, and cloud-native infrastructure. Focused on reliability, performance, and clean system design.

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Skills

Languages: Python, SQL, Go, JavaScript, Bash Scripting
Backend & APIs: FastAPI, Flask, Go Fiber, REST APIs, Celery
Databases: PostgreSQL, DynamoDB, Redis, DuckDB
Cloud & DevOps: AWS (EC2, Lambda, RDS, ECS), Docker, Terraform, GitHub Actions
Data & Orchestration: Airflow, Prefect, Metabase, Looker Studio

Experience

Backend Engineer, KwevoxAI – Remote   June 2024– Present
- Built and maintained backend services for two production SaaS platforms (KudiTraka and LaunchpadNG) using FastAPI and Go Fiber.
- Implemented retrieval-augmented generation pipelines using Qdrant to enable semantic search and context-aware responses.
- Implemented Redis caching for high-read endpoints, reducing API latency by ~3x under production traffic.
- Integrated PostgreSQL, DynamoDB, and Redis to support transactional and analytics workloads.
- Designed asynchronous task processing with Celery to handle background jobs and long-running workflows.
- Deployed and monitored services on AWS using Docker and Terraform.

Backend Engineering Contractor | Various Clients (Remote)   Oct 2022– Dec 2024
- **Turing.com (Contractor for US Startups):**
  - Optimized PostgreSQL queries and refactored API endpoints, improving response times by 15%.
  - Built automated pipelines to ingest and process PDFs and structured data.
  - Developed and maintained secure, high-throughput REST APIs and AI pipelines for document processing, serving over 5,000 daily requests with 99.9% uptime.
- **BetterCNC:**
  - Built ETL pipelines using DuckDB to ingest and visualize CNC machine job data, replacing manual tracking with real-time operational analytics.
- **Home Team Management LLC:**
  - Built backend services for mobile and web applications handling document workflows and e-signatures with Flask.
  - Developed and scaled HeroForms, a secure mobile platform that digitized military administrative workflows by enabling encrypted e-signing, automated form routing, and real-time document processing.
  - Engineered a high-performance AI-driven auto-fill API in Go, utilizing concurrent processing to deliver real-time field predictions with sub-50ms latency.
- **Lions PromoBot:**
  - Developed an asynchronous Python backend handling up to 15,000+ concurrent requests for a Telegram ad platform.
  - Scaled the backend infrastructure to support a 100x increase in user load, optimizing database queries to maintain sub-100ms latency during peak broadcast windows.

- Integrated crypto/fiat payment gateways to automate campaign transactions.

Freelance Web Scraping and Automation Engineer, Remote   Jun 2021 – August 2022
● Built scalable web crawlers and data pipelines to collect and normalize large datasets.
● Designed distributed scraping systems with queue-based processing and SQL storage.
● Built automated ETL pipelines to clean, normalize, and load unstructured HTML data into structured SQL databases, directly powering client business intelligence dashboards.

Full-Stack Developer, CompleteMedics - Nigeria   Jun 2019 – Sept 2021
● Built real-time video and text communication between patients and medical professionals using Flask, WebRTC (**Janus** Gateway).
● Integrated real-time chat and video features into the telemedicine platform to support remote consultations.
● Collaborated with product and medical teams to align technical implementation with clinical workflows.
● Optimized call setup and reconnection logic, reducing failed or dropped sessions by ~30**%** during live consultations.

Education

Abubakar Tafawa Balewa University – B.Eng in Mechatronics and Systems Engineering
Dean's List (First and Second year)