Ahmad Ameen

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Innovative Senior Software Engineer with 6+ years of experience designing and delivering scalable, high-performance web applications. Skilled in Python, JavaScript/TypeScript, and Go, with deep expertise in backend development and a strong command of modern AI frameworks. Adept at leading engineering teams, building distributed systems, and implementing robust software solutions that drive measurable business value.

EXPERIENCE

eHealth Africa — *Senior Coordinator, Software Engineering*

February 2025 - PRESENT

- Lead a cross-functional team of software engineers, testers, and designers to deliver high-quality, scalable software solutions.
- Oversee architectural decisions, ensuring systems meet performance, scalability, and security requirements

eHealth Africa — *Coordinator, Software Engineering*

December 2023 - January 2025

- Directed multiple software projects from concept to deployment, aligning technical strategy with organizational goals.
- Mentored junior engineers and improved development processes for efficiency and code quality.

EHA Clinics — *Software Engineer*

October 2020 - November 2023

- Collaborated on the development of an **EMR system** based on **OpenEHR and FHIR** standards, improving healthcare data interoperability.
- Designed and implemented asynchronous data syncing in Python for distributed systems, reducing data latency by **40%**.
- Developed multiple RESTful APIs for internal mobile apps, improving data access for clinical operations.
- Utilized Kafka, Celery, and Redis to enable reliable inter-service communication in a microservices architecture.
- Participated in peer code reviews, enhancing code quality and maintainability.

EnovateLab — *Software Engineering Intern*

January 2019 - June 2019

- Built and deployed a SaaS platform from inception to launch within **6 months**, collaborating with stakeholders and engineers.
- Developed APIs, wrote unit tests for new and legacy code, and participated in production releases.

SKILLS

Langauges

Python
Javascript/Typescript
Go

Frameworks

Django
FastAPI
React/NextJs

Testing

Pytest
Jest
React Testing Library

Systems

Redis
Websocket
WebRTC
Message Queues
Concurrency
Async Programming
Distributed Systems
Task Scheduling
System Design

Interoperability

OpenEHR
FHIR

EDUCATION

Miva Open University — *M.Sc. Information Technology*

September 2025 - September 2026

Bayero University Kano — *B.Sc. Physics*

March 2015 - February 2019

PROJECTS

Flowrra — Distributed Task Execution Framework (GitHub, PyPI)

Open-source backend framework for executing asynchronous and CPU-bound tasks with explicit scheduling control and pluggable brokers and backends.

- Designed a unified task execution model supporting both I/O-bound and CPU-bound workloads via separate executors.
- Implemented async-first scheduling with explicit CPU-bound offloading to worker pools, preventing event-loop starvation.
- Built a pluggable backend architecture supporting in-memory and Redis-based task queues and result storage.
- Developed command-style task registration and explicit configuration APIs for flexible execution control.
- Applied runtime heuristics and instrumentation to detect long-running non-yielding tasks and optimize scheduling.
- Focused on scalability, correctness, and separation of concerns, inspired by Celery, Tokio, and modern async runtimes.

Tech: Python (asyncio), Redis, RabbitMQ, concurrency primitives, distributed systems, task scheduling

Tochly — Real-Time Team Chat Application (tochly.com)

Open-source Slack-inspired chat platform designed for scalability, reliability, and real-time collaboration.

- Developed real-time messaging using WebSockets and async Python backend, ensuring low-latency delivery.
- Implemented distributed message storage with Cassandra and Redis for high-throughput and fault tolerance.
- Built end-to-end encrypted messaging for secure team communication.
- Designed modular architecture enabling integration of additional features like file sharing and notifications.

Tech: Python (Django, FastAPI, Celery, asyncio), React/TypeScript, Redis, Cassandra, WebSockets, E2E Encryption

Articles

Understanding the Factory and Factory method design pattern

LANGUAGES

English

EHACare — SaaS Electronic Medical Record System (eha.care)

Cloud-based EMR system built on OpenEHR and FHIR standards to improve healthcare data interoperability.

- Designed multi-tenant EMR architecture for clinics and hospitals.
- Built asynchronous data pipelines for patient record syncing, reducing latency by 40%.
- Developed RESTful APIs to enable integration with mobile and web applications.
- Ensured compliance with healthcare data standards and optimized for security and scalability.

Tech: Python (FastAPI, Celery), React/TypeScript, OpenEHR, FHIR, PostgreSQL, Redis

GetCare — *getcare.eha.ng*

Public-facing web app for EHA Clinics enabling users to schedule consultations, purchase tests/medications, and manage appointments.

Healthmate — *https://play.google.com/store/apps/details?id=ng.eha.healthmate*

Mobile app for healthcare appointment scheduling, medication purchases, and accessing medical records.