

Amr Atif

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Backend Software Engineer with production experience in Python, APIs, databases, and distributed services, now building backend systems in Go.

TECHNICAL SKILLS

Languages: Go, Python, SQL, JavaScript/TypeScript, C++, Bash

Backend: Go (goroutines, channels, context, WaitGroup, Mutex/RWMutex), Chi, FastAPI, Django/DRF, Node.js, REST APIs, HTTP middleware, sessions

Databases: PostgreSQL, Oracle, SQLite; indexing/B+Trees, query optimization, ACID, transactions, MVCC, locking/2PL, partitioning, replication, sharding

Infrastructure & Tools: Docker, Linux, Git, GitHub, DigitalOcean, CI/CD

Testing & Automation: Pytest, Selenium, Python scripting

EXPERIENCE

Software Engineer - Pixel Soft | Hybrid

Nov 2025 - Present

- Build and maintain Python/FastAPI backend services across production client systems, integrating third-party APIs and services with a focus on reliability and low-latency data flow.
- Designed a service orchestration layer spanning an MCP server, LLM provider, and optimized database backend with materialized views, supporting concurrent request workloads.
- Developed high-throughput database workflows using stored procedures and optimized SQL, reducing application-layer work for large-volume processing.
- Manage Docker/Linux deployment configurations and collaborate with clients and cross-functional teams to deliver and maintain production features.

Software Automation Engineer - Huawei GNOC | On-site

Apr 2025 - Nov 2025

- Automated 30+ hours/month of operational work with Python, reducing manual errors by 60% in a network operations environment.
- Built REST APIs and internal operational tooling, improving response and incident-handling workflows by 30%.
- Optimized SQL queries and indexing for production workloads, improving system throughput by 35%; implemented Selenium/Pytest automation to accelerate release validation.

PROJECTS

GoCart - Digital Commerce Platform | Go, Chi, PostgreSQL, Redis, Docker

- Developed a backend-driven web application in Go with user registration/login, account activation, session management, and protected routes using HTTP middleware.
- Implemented a simulated digital-product purchase and payment workflow with email-based account activation and transaction confirmations.
- Implemented concurrent email processing using goroutines and channels, with context-based cancellation/timeouts and graceful application shutdown.

Hindami - E-Commerce Platform | Python, Django/DRF, PostgreSQL, Docker, DigitalOcean

- Built the Django backend including models, authentication, REST endpoints, and database layer; integrated Tap payment gateway for checkout and transaction handling.
- Deployed and operated the application on DigitalOcean with Docker-based production configuration.

PawPal - Pet Management App | React Native, TypeScript, Node.js, REST APIs, S3

- Built a cross-platform pet management application with authentication, pet profiles, clinic-related flows, health reminders, push notifications, and S3-compatible media storage.

EDUCATION

Benha University - B.Sc. in Computer Science and Artificial Intelligence

Sep 2019 - Jul 2023

GPA: 3.3/4.0

Relevant Coursework: Operating Systems, Computer Networks, Databases, Data Structures and Algorithms

Database Study: Relational databases, database internals, indexing, transactions, concurrency control, query optimization, and advanced/distributed database concepts

COMPETITIVE PROGRAMMING

- Competed twice in ECPC and solved 800+ algorithmic problems on Codeforces and LeetCode (rating range: 800-1800).

LANGUAGES

Arabic: Native | **English:** Professional Working Proficiency