

Yousef Ahmad

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Technical Skills

Programming Languages: Python, Javascript, Typescript, HTML, CSS, SCSS

Frameworks: Django, Django Ninja, NextJs, React, Capacitor

Tools: Minio, Celery, RabbitMQ, LavinMQ, PostgreSQL, TimescaleDB, Zustand, TanStack, React Query, Hey API, Sentry, Vite, Astro, Git, Tailwind, Bootstrap, Shadcn, Linux Arch.

Work Experience

Software Engineer

Kalvad

Dubai, UAE

10/2021 - present

- Tech stack: Django, TimescaleDB, PostgreSQL, Celery, RabbitMQ, Django Ninja, MinIO, Docker, Sentry, JWT, React, TanStack, React Query, Hey API, Zustand.
- Collaborated in a team to develop government projects for the UAE, seamlessly integrated and utilized by over 22 Federal Entities.
- Architected a dual-database infrastructure using PostgreSQL and TimescaleDB hypertables with continuous aggregates and compression, improving time-series query performance for millions of records.
- Engineered robust asynchronous pipelines with Celery and RabbitMQ, handling 15+ scheduled jobs for data synchronization, ML model training, and large-scale exports of 1M+ rows with fault-tolerant retries.
- Developed high-performance REST APIs with Django Ninja, JWT authentication, and role-based access control, serving 20+ real-time dashboards and supporting complex multi-dimensional queries for millions of API calls.
- Implemented secure, enterprise-grade authentication and auditing, including UAEPass, 2FA, LDAP/Active Directory, API key management, and field-level audit logs for compliance and traceability.
- Optimized database and application performance through indexing, N+1 query elimination, streaming large exports via MinIO, reducing response times and downtime.
- Developed 20+ dynamic, real-time dashboards using React, Zustand, React Query, and Hey API for automatic schema generation, enabling complex multi-dimensional filtering and seamless client interactions.

Projects

Harakti App

[Website](#) 

- Built a cross-platform gym tracking app end-to-end using Django 6 + django-ninja (REST API with auto-generated OpenAPI schema) and React 19 + TypeScript with TanStack Router/Query, deployed on Clever Cloud with PostgreSQL and a Celery/LavinMQ background task queue..
- Implemented a dual-token authentication flow using short-lived access tokens stored in memory (Zustand) and secure HttpOnly refresh token cookies to reduce XSS risks, with Cloudflare Turnstile bot protection on public endpoints.
- Shipped the React app as a native iOS/Android application using Capacitor 8, including a custom native Capacitor plugin to read step count and calorie data from Apple Health / Google Health Connect, with platform-aware UI rendering.
- Implemented a suite of workout analytics: streak tracking with grace-period logic, weekly training volume trends per muscle group, personal record detection with estimated 1RM (Epley formula), and a gym-scoped leaderboard — all backed by optimised Django ORM queries with composite DB indexes and OuterRef/Subquery correlated subqueries.
- Auto-generated a fully type-safe TypeScript API client from the OpenAPI spec using @hey-api/openapi-ts, eliminating all hand-written fetch code.

Minbur

[Github](#) 

- Built and designed a Skool.com-style community platform using Next.js, Django Ninja, and PostgreSQL, enabling creators to monetize content and manage memberships.
- Designed a scalable JWT-based authentication system with secure user role management across frontend and backend.
- Integrated Stripe in a staging-ready environment to support future implementation of payments, subscriptions, and revenue flows.
- Architected cloud-based file storage with MinIO (S3-compatible) for user-uploaded assets, supporting efficient media management and scalability.

Education

World Islamic and Science University
Bachelor in Software Engineering

Amman, Jordan
09/2017 - 09/2021