

# Yousef Ahmad

Canadian  Dubai, UAE  usefselawi@gmail.com  +971 568847902  yousef-alselawi  selaw1

## Technical Skills

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**Programming Languages:** Python, Javascript, Typescript

**Frameworks:** Django, Supabase, Django Ninja, NextJs, React

**Tools:** Minio, Celery, RabbitMQ, LaminMQ, PostgreSQL, TimescaleDB, Zustand, TanStack, React Query, Hey API, Sentry, Vite, Astro, Git, Tailwind, Bootstrap, Shadcn, Daisyui, Linux Arch, SCSS, CSS, HTML.

## Work Experience

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### 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

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### 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.

### Programming Center Platform — Graduation Project

[github](#) 

- Designed and developed a comprehensive programming education platform featuring interactive tutorials, a built-in code editor, and a community-driven Q&A section, enabling users to learn and collaborate effectively.
- Built the platform using the Django framework and integrated a PostgreSQL database for optimized data management and scalability.
- Implemented and managed hierarchical category structures using the Django MPTT library, ensuring efficient data organization and retrieval.
- Integrated HackerEarth API to enable seamless code compilation processes, enhancing functionality and performance of the platform.

- Customized and enhanced the user experience of the code editor with ACE.js, delivering a tailored and intuitive design.

## Education

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**World Islamic and Science University**  
*Bachelor in Software Engineering*

*Amman, Jordan*  
09/2017 - 09/2021