


Qusay Albonni

SOFTWARE ENGINEER

Backend Developer | TypeScript, Python | NestJS | Scalable APIs & Real-Time Systems

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Summary

Backend developer with hands-on experience building scalable web applications using NestJS, TypeScript, and Django. Proficient in designing robust database models, optimizing high-performance APIs, and implementing asynchronous workflows. Skilled in both Python and JavaScript/TypeScript, with expertise in real-time communication (WebSockets), complex model relationships, and reusable architectures. Passionate about delivering user-focused applications with clean, modular code. Experienced in deploying production-grade applications using Docker, CI/CD pipelines, and cloud platforms (PaaS: Fly.io, Render, Railway; IaaS: AWS). Enjoys contributing to impactful projects in collaborative, cross-functional teams.

Work Experience

Freelance Backend Developer

Self-Employed | [2024-present]

Arabesk E-commerce Platform (NestJS, TypeScript, PostgreSQL, Redis)

- Developing a scalable e-commerce platform with multi-role access for sellers and customers.
- Implementing secure authentication, role-based access control, and efficient order management.
- Optimizing API performance with caching strategies and database indexing.
- Push notifications with firebase and inbox notifications.
- integrated with Amazon AWS services (S3, Rekognition, CloudWatch)
- deployed and continue developed the project on Fly.io and Docker

Delta Team - Education Plateform (NestJS, TypeScript, PostgreSQL, Redis)

- Architected and implemented the backend for an educational platform where users can purchase and access video courses by scanning QR codes.
- Designed REST APIs to handle course browsing, secure purchasing, and file downloads.
- Built robust role-based access controls (admin, teacher, student), including:
 - Teachers uploading public (free) and private (paid) courses.
 - Admins managing teachers, subjects, course visibility, and analytics via a web dashboard.
- Used PostgreSQL for relational data modeling (users, purchases, courses, etc.), and Redis for caching and session management.
- Used Docker for Deployment on Fly.io, Tigris for storage, Upstash for Redis

Chatters – Real-Time Chat Application (Django Channels, Vue.js, Redis, PostgreSQL)

- Built a high-performance real-time messaging platform using Django Channels and WebSockets.
- Designed a single-page application (SPA) frontend with Vue.js for seamless user interactions.
- Made an experiential Feature with real time personalized AI powered message translation and summarization
- Leveraged Redis for session management, caching, and Pub/Sub messaging.
- Ensured persistent chat history and media storage with PostgreSQL and Backblaze B2.
- Deployed on Render.

Educational History

STUDENT IN COMPUTER SCIENCE

Damascus University

2021-

Technical Skills

- Languages: TypeScript, JavaScript, Python
- Frameworks & Libraries: NestJS, Django, Django Channels, Node.js, Vue.js
- Databases: PostgreSQL, MySQL
- Caching & Queues: Redis (Pub/Sub, Queues), Celery
- API Design: REST, WebSockets, Swagger/OpenAPI, JWT, OAuth2 (Social Auth), Rate Limiting
- Architecture Patterns: Event-Driven Architecture, CQRS (familiar), /Hexagonal, Onion, Layered/ - (introductory)
- DevOps & Deployment: Docker, CI/CD (GitHub Actions etc.), AWS, Fly.io, Render, Railway
- Monitoring & Logging: Sentry, CloudWatch
- Tools: Git, ESLint, Vscode, pgAdmin, Mongoose (limited)

Relevant Skills

- Problem-Solving: Skilled in identifying and addressing technical challenges.
- Adaptability: Quickly learns and integrates new tools and technologies.
- Team Collaboration: Works effectively in cross-functional teams.
- Time Management: Prioritizes tasks to meet deadlines and optimize performance.
- Attention to Detail: Ensures accurate, localized features and smooth functionality.
- Creative Thinking: Innovates user-focused solutions, such as AI integration and real-time features.
- Native or Bilingual in: Arabic, English.