

# Wesam Ghrayeb

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## Profile

Full-stack software engineer with strong software engineering foundations and hands-on experience building scalable SaaS and cloud platforms. Specialized in TypeScript, Node.js, React, MongoDB, and distributed system design. Started as a solo developer shipping products end-to-end - now leading a team and driving architecture, delivery processes, and engineering quality.

## Experience

### **WJS Digital Innovations Ltd | Full-Stack Software Engineer & Agile Development Leader (07/2024 - Present)**

- Designed and implemented **WJS 365 Together**, a multi-tenant SaaS CRM, using Node.js, Express 5, TypeScript, and MongoDB.
- Built the system end-to-end as a solo developer, then scaled delivery by leading a team of 3 engineers and establishing code standards and review processes.
- Architected a **Gateway -> Microservices (RPC)** approach with strict tenant isolation and server-side **RBAC/ABAC** enforcement (route + resource level).
- Delivered secure APIs with OpenAPI documentation, Zod validation, robust error handling, audit logging, and rate limiting.
- Implemented real-time notifications/presence with Socket.IO + Redis, and background processing with RabbitMQ; optimized caching/invalidation to reduce polling and stabilize updates.
- Implemented feature flags, plan-based entitlements, and SuperAdmin module locks (enabled/hidden/locked modules).
- Owned deployments and production monitoring with Docker, Nginx, PM2, and AWS to maintain high uptime and scalability.
- Led Agile delivery with PM/cross-functional teams (sprint planning, execution, code reviews) and ran QA with 50+ Google developers, in collaboration with the Technion QA course.

**Tech stack:** TypeScript, JavaScript, Node.js, Express, React, Tailwind CSS, React Query, Framer Motion, MongoDB, Redis, RabbitMQ, REST/WebSockets (Socket.IO), JWT, Zod, Docker, Linux, Nginx, PM2, AWS.

### **Instructor | Computer Science, Mathematics and Physics (05/2021 - Present)**

- Teach and mentor students and pupils in computer science, mathematics and physics.
- Focus on problem-solving, algorithmic thinking, and building a deep understanding of computational logic and engineering principles.

**Key skills:** Scalable architecture, distributed systems, multi-tenancy, microservices design, Agile leadership, mentoring and code reviews.

**Tools:** Git, Docker, Linux, Nginx, PM2, AWS basics, OpenAPI, Redis, RabbitMQ.

## Education

### **B.Sc. Software Engineering - Ort Braude College | 10/2019 - 07/2023**

**3x Dean's List** | Selected coursework: Operating Systems (Hard Real-Time), Data Mining & Machine Learning, Data Structures, Algorithms, Systems Programming (C), Computer Architecture, OOP (Java).

#### **Academic projects (during studies):**

- **BiteMe** - Team project (5 members): restaurant ordering system using Java and MySQL.
- **Flying Packages** - Full-stack deliveries project using React, Node.js, and MongoDB.
- **Restaurant Finder** - Android Studio app built with Java.

AWS Cloud Practitioner - Elevation (2024)

Priority ERP Development - In-Line College (2025)