Youssef Gaafer

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Skills

- JavaScript | TypeScript | Angular | React | HTML5 | CSS3 | NodeJS | ExpressJS | RxJS | Signal Stores | PostgreSQL | Git | Full-Stack
- **Closures** | **Non-Blocking IO** | SQL | OpenTelemetry | Unit Testing | OOP | Micro Frontend | NX Workspace | English 'C1'

Experience

Frontend Engineer — WSS — 5th Settlement, Egypt — **10/2024 - Current**

- Led the digital transformation of Saudi Commercial Chambers by consolidating 23 disparate websites into the "Unified Chambers" platform, reducing server infrastructure costs by ~**40%** and cutting maintenance effort by ~**50%**.
- Drove technology strategy by selecting **Angular 19** and **NgRx Signal Stores** to ensure long-term maintainability and scalability, enabling the team to rapidly onboard new developers and iterate on features faster.
- Accelerated delivery velocity by architecting a library of **25+** reusable UI components, cutting development time for new business features by ~**50%** and enforcing design consistency across the application.
- Enhanced operational efficiency for **1,200+** daily users by optimizing API integration and data caching, reducing load times by 30% and ensuring seamless performance for critical chamber workflows.
- Collaborated with backend teams to define RESTful APIs aligned with business requirements (registrations, permissions), ensuring data integrity for both Admin and Subscriber panels.
- Mentored newly coming junior engineers on state management best practices and code architecture, conducting rigorous code reviews to maintain high quality standards and accelerate team productivity.
- Promoted from Intern to Full-time by consistently demonstrating the ability to own complex features and deliver business value solely.
- **Key Achievement:** Delivered a mission-critical platform now used by **1,200+** commercial entities daily, modernizing Saudi Arabia's chamber management system and earning recognition from the Ministry of Commerce for code quality and scalability.

Avionics Engineer — Egypt Air — CAI — **01/2024 - 07/2024**

- Completed the EgyptAir Basic Avionics course, acquiring comprehensive knowledge of Aerodynamics, Aircraft Communication Systems, Aircraft Materials, Electrical Systems, Aviation Regulations, and Human Factors.
- Executed safety-critical maintenance on Boeing and Airbus fleets within strict regulatory and operational requirements, minimizing downtime and supporting on-time flight performance.
- Developed disciplined, compliance-focused engineering habits in a high-stakes environment, working collaboratively with cross-functional teams to meet tight schedules.
- Gained experience in adhering to aviation regulations and safety protocols through rigorous training and practical application.

Software Engineer — Si-Ware — Sheraton, Cairo — **07/2023 - 08/2023**

- Replaced manual Excel-based processes with a fully automated Performance Evaluation system, enabling managers and HR to track employee objectives and ratings with persistent, auditable records.
- Improved system security and user adoption by implementing Gmail OAuth 2.0 authentication, streamlining access for employees and reducing administrative overhead.
- Partnered with stakeholders to refine business requirements and optimize the database schema, ensuring the platform supported the company's performance management goals.
- Collaborated with cross-functional teams to ensure the platform met business needs and user requirements.

Software Tester, Intern — IBM — Smart Village, Giza — **08/2022 - 09/2022**

- Mitigated business risk for the Nike-IBM logistics partnership by validating critical truck invoicing and inventory APIs, preventing incorrect order data and ensuring compliance with country regulations.
- Utilized automation and load testing tools (PyCharm, JMeter) to identify defects early, supporting the team's commitment to high-quality software delivery.
- Learned several testing techniques: Automation testing (PyCharm), Data testing (JMeter), Manual testing (Excel sheets).

Education

Bachelor of Computer Engineering — Cairo University — 09/2023

- Major in Electrical Communication and Computer Engineering with a minor in Computer Engineering.

Projects

- ScanMate 'graduation project': multi-view close range 3d scanning app. More at: github.com/YoussefGaafar/photogrammetry.