Omar Radwan

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GitHub: https://github.com/omar-radwan7

Personal Portfolio: www.omar-radwan.com

Professional Summary

Aspiring Full Stack Developer with strong foundations in JavaScript, TypeScript, React, C, Java and Python. Skilled in building scalable web applications, integrating APIs, and delivering responsive designs. Quick learner with proven ability to collaborate in cross-functional teams, troubleshoot issues, and adapt to evolving requirements.

Technical Skills

Programming Languages
- Python • Java • C++

Web Development
- REST APIs • React.js • Vue.js • JavaScript • TypeScript • CSS • Bootstrap • HTML5
- User Experience Design

Mobile Application
- Flutter • Kotlin • Golang

Database & Cloud
- PostgreSQL • AWS Cloud Services • Cloud fundamentals • Cloud Architecture • MongoDB • MySQL

Work Experience

Full Stack Developer Intern | The Egyptian Ministry of Networking & The Applied Innovation Center| Full Time-Remotely
09/2025 – Present
- Developing and deploying full stack features using React.js, Node.js, and PostgreSQL.
- Collaborating with designers and engineers in Agile sprints to deliver scalable solutions.
- Implementing responsive UI components and optimizing app performance.

Data Engineer Internship | EBNY Real Estate – Cairo, Egypt | Full Time-On-Sight
05/2023 – 08/2023
- Collaborated with teams to gather requirements and implement custom solutions.
- Designed database systems to store and manage property data.
- Verified and resolved bug reports and technical issues.
- Developed solutions using Python and SQL databases.

Projects

3D Satellite Collision Prediction System
- Developed a **C++20** real-time orbital simulator using **OpenGL, GLFW**, and GLM. Models Earth and satellite constellations, updating positions via **Keplerian physics** and solving Kepler's equation iteratively. The conjunction engine predicts future positions up to 1 hour ahead, calculates minimum distances, generates risk scores, and performs debris dispersion using vector-based orbital mechanics, all in real time while maintaining 60 FPS.

SSH Keys Portal – Web-based portal for managing SSH keys in HPC environments

- Engineered a secure SSH key management portal utilizing **Python, FastAPI**, and SQLAlchemy, cutting user onboarding time by 87.5%, reducing deployment from 2 hours to just 15 minutes and saving countless hours for researchers.

- Cross-platform developing experience via universal Makefile and bootstrap scripts; reproducible setup, **SQL migrations**, and health/status endpoints.

Trading App – Flutter stock market app with real-time financial data and portfolio tracking
- Developed a cross-platform stock market application using Flutter, achieving 99.9% uptime for the web version containerized with Docker and Nginx, ensuring reliable access to real-time financial data.

Web Portfolio Builder
- Built a no-code React portfolio builder (Vite + Tailwind) with dual modes (Blocks/Page), drag-and-drop sections, multi-page management, theme presets, per-section layout controls, customizable hero/highlights, and one-click export to a runnable React project (JSZip/FileSaver); state via Context + useReducer

Local Cloud Storage
- A fully local Dropbox-style app built with **Next.js, React, TailwindCSS, Node.js, Express, TypeScript, and SQLite**, offering secure user authentication, drag-and-drop file uploads with automatic versioning, nested folders, a recycle bin, storage visualization, semantic search, and optional **AI-powered file summarization and chat**, all in a self-contained, portable system.

Education
Bachelor of Science: **Software Engineering**
University of Europe for Applied Sciences   Potsdam, Germany **09/2023 – Present**

High School Diploma: **American Diploma**
Port Said American School   Giza, Egypt 09**/2020 – 07/2023**

Certifications
Meta Back End Professional Developer Certificate
- Covers Python, SQL, APIs, Git, and Django, with a focus on building secure and scalable back-end systems.

AWS Cloud Practitioner Essentials Certificate
- Foundational knowledge of AWS core services, cloud concepts & Architecture, security, and cloud fundamentals

Language

- Arabic: Native
- English: C1
- German: A2 (Still taking an Intensive German Course)