Omar Kassem

Software Engineer

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Professional Experience

Software Engineer
Codescalers – October 2022 – Present

- Maintaining and developing new features for Threefold Solutions, the world's largest P2P infrastructure provider.
- Developing TypeScript packages for the TFGrid-SDK-TS monorepo, which includes the Threefold Dashboard and connects with TFChain and GridClient.
- Developed a service monitor package to track the status of any third-party service across different stacks, ensuring resilience through automatic failover to alternative stacks.
- Implemented a chain event listener in the TFChain client to subscribe to specified blockchain events.
- Created a Vue-based Threefold Stats website to visualize real-time grid statistics, and provided a lightweight summary endpoint using Nginx and JavaScript to return JSON data without requiring backend services.
- Tech Stack: TypeScript, Vue, Vuetify, Node.js, Svelte, Lerna, Polkadot JS, Flutter, Docker, Kubernetes, GitHub Actions, GraphQL

Software Engineer Intern
Codescalers – July 2022 – September 2022

- Built Go projects integrated with Svelte front-end applications, including unit testing, Docker image creation, and Kubernetes container orchestration.
- Worked on CSHR, a comprehensive HR management system built using Django, DRF, Svelte, and REST API.

Freelance Mobile Developer – React Native
RXA Construct – October 2024 – February 2025

- Developed and maintained features for the **RXA Construct** mobile application using React Native, improving user experience and app performance.
- Fixed critical bugs related to navigation, state management, and API integrations, increasing app stability.
- Collaborated with the backend team to integrate RESTful APIs and ensure seamless data flow.

- Ensured cross-platform compatibility and optimized performance across a wide range of Android and iOS devices.
- Successfully released the updated app to both **Google Play Store** and **Apple App Store**.
- Visit Project Website

Education

Faculty of Engineering – Mansoura University
Computer Engineering and Systems Department | Bachelor's Degree
July 2017 – August 2022
Cumulative Grade: 76% (Very Good)

Skills

- **Languages:** JavaScript, TypeScript, Go, Dart, C++, Python
- **Technologies:** Vue, Node.js, Flutter, React Native, Linux, AWS Services, CloudFormation, OOP, REST API, Git, SQL, NoSQL, HTML, CSS, Django, Terraform, Svelte, GitHub Actions, Docker, Kubernetes, Helm

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Projects

RESP.js
A TCP server implementation that processes Redis-like commands using Node.js's net module and Mocha for unit testing.

TF-Umbrel/WordPress
Docker setup to run Umbrel OS and WordPress on the ThreeFold Grid, with shell scripts, Nginx, and CI/CD pipelines via GitHub Actions.

INI Parser
Built in Golang; parses INI files by extracting sections, maintaining values, and exporting parsed data back to INI format.

LitFair Server (Graduation Project)
Developed backend for an AI-powered recruitment platform using Express, Mongoose, Sequelize, Multer, Passport.js, and Cloudinary.

Udagram
Deployed a high-availability web app using AWS CloudFormation, EC2, VPC, and S3 buckets.

Leadership & Activities

- **Computer Science Circle Leader** – CAT Reloaded (Jan 2021 – Oct 2021)
- **Technical Member** – ICPC Mansoura (Oct 2020 – Oct 2021)

Achievements & Certifications

- Professional Front-End Web Development Nanodegree – Udacity
- Web Development Using Node.js and Angular – NTI