# Omar Kassem

**Software Engineer**

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### Professional Experience

**Software Engineer**  
*Codescalers – October 2022 – Present*

* Maintaining and developing new features for [Threefold](https://threefold.io/) Solutions, the world’s largest P2P infrastructure provider.
* Developing TypeScript packages for the [TFGrid-SDK-TS](https://github.com/threefoldtech/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](https://www.rxaconstruct.com)

### 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

### 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