# Omar Abdulaziz

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## EXPERIENCE

# Software Engineer

Oct 2021 - Present

Cairo, Egypt

Codescalers

• Kubernetes: Built custom CRDs to extend cluster functionality for scalable workloads.

- Trabellices. Band castom of the to extend draster ranetionality for semantic workloads.
- Database: Optimized PostgreSQL schemas and queries, cutting response times from 30s to 3s (10x).
- Concurrency: Designed distributed indexers for 3k+ nodes using Go generics and concurrency.

• API Development: Delivered REST, GraphQL, and RPC APIs with strong spec compliance.

- Pub/Sub Systems: Built asynchronous pipelines with Redis streams for reliable event-driven processing.
- Frontend Integration: Supported Syelte \( \text{Vue migration, integrating multiple APIs for a unified dashboard.} \)
- DevOps & Docker: Published 20+ Docker images for DApps, boosting deployment and developer adoption.
- Systems Programming: Developed low-level Linux services and extended a fetch-on-read filesystem with S3.
- Security & Networking: Secured servers with NFTables and implemented OAuth + signature-based auth.
- Monitoring: Built health-checking and caching services, improving reliability and observability.
- Tooling & Automation: Created an OpenRPC codegen tool, reducing boilerplate by 40%.
- Collaboration: Joined design discussions, PR reviews, and cross-team projects to ensure scalable solutions.
- Testing: Maintained unit/integration test suites for stable, well-covered services.

## Intern Software Engineer

Aug 2021 - Oct

Codescalers Cairo, Egypt

- Automation Tools: Implemented client tools for Jumpscale to streamline automation.
- API/SPA Development: Managed testing, containerization, CI/CD—reduced deployment time.

#### **EDUCATION**

## Bachelor of Electronics and Communication Engineering

2016 - 2021

Nile Academy Mansoura, Equpt

**PROJECTS** 

BusyNux Bash, Linux, Busybox

Minimal Linux-from-scratch distribution

Gocker Go, Linux, Docker, runc

Lightweight Docker clone using Linux primitives, namespace, cgroups

 $\Gamma$ hird $\Gamma$ ve Puthon, Tensor $\Gamma$ low, ML/AI

AI-powered device for visually impaired people, providing object recognition with audio feedback

#### TECHNICAL SKILLS

Programming Languages: Go, TypeScript, Python, SQL, Bash

Databases: PostgreSQL, Redis, MongoDB

Backend & APIs: REST, GraphQL, Pub/Sub, gRPC

Frontend: Vue.js, Svelte

Cloud & DevOps: Linux, Docker, Kubernetes,