

# Omar Abdulaziz

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## EXPERIENCE

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### Software Engineer

Oct 2021 – Present

*Codescalers*

*Cairo, Egypt*

- **Kubernetes:** Built custom CRDs to extend cluster functionality for scalable workloads.
- **API Development:** Delivered REST, GraphQL, and RPC APIs with strong spec compliance.
- **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.
- **Pub/Sub Systems:** Built asynchronous pipelines with Redis streams for reliable event-driven processing.
- **Frontend Integration:** Supported Svelte→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

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### Bachelor of Electronics and Communication Engineering

2016 – 2021

*Nile Academy*

*Mansoura, Egypt*

## PROJECTS

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### BusyNux

*Bash, Linux, Busybox*

*Minimal Linux-from-scratch distribution*

### Gocker

*Go, Linux, Docker, runc*

*Lightweight Docker clone using Linux primitives, namespace, cgroups*

### ThirdEye

*Python, TensorFlow, ML/AI*

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

## TECHNICAL SKILLS

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**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,