

Omar Abdulaziz

+201007141064 | omarabdul3ziz@gmail.com | linkedin.com/in/omarabdul3ziz | github.com/omarabdul3ziz

EXPERIENCE

- **Software Engineer** Aug 2021 – Present
Codescalers *Cairo, Egypt*
 - **PostgreSQL Optimization:** Refactored schemas and queries, cutting API response times by 400%.
 - **API Development:** Built REST, GraphQL, and RPC APIs with advanced filtering/sorting/pagination.
 - **Scalable Systems:** Developed high-concurrency indexers scraping data from 3000+ nodes.
 - **System Programming:** Wrote Linux system-level tools in Golang (networking, init, file systems).
 - **Monitoring:** Integrated Prometheus and Grafana; built health monitoring tools.
 - **Frontend Integration:** Designed dashboards with Svelte/Vue.js.
 - **DevOps:** Maintained 20+ Docker images and CI/CD pipelines.
- **Software Engineer Intern** Jul 2019 – Aug 2019
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

- **Nile Academy** 2016 – 2021
Bachelor of Electronics and Communication Engineering *Mansoura, Egypt*

PROJECTS

- **Gocker** *Golang, namespaces, cgroups, runc, Docker*
 - Developed a Docker-like runtime with namespaces, cgroups, filesystems.
 - Extended Docker with VM image creation and a custom process manager.
- **BusyNux** *BusyBox, Linux, Operating System*
 - Built a minimal Linux distribution from scratch using Busybox.
 - Learned boot processes and kernel compilation.
- **ThirdEye** *Machine Learning, Python, TensorFlow*
 - Built a computer vision system with sound feedback for visually impaired users.

TECHNICAL SKILLS

- **Languages:** Golang, Python, JavaScript/Typescript, SQL (Postgres)
- **Backend:** GraphQL, Microservices, REST, RPC
- **Databases:** PostgreSQL, Redis
- **Frontend:** React (basic), Svelte, Vue.js
- **Tools:** CI/CD, Docker, Kubernetes, Linux