

# Abdelrahman Omar

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## SUMMARY

- Rust backend and systems engineer focused on production microservices, distributed systems, and infrastructure.
- Interested in low-level networking, reliability, and operating services in production.
- Active open-source contributor.

## EDUCATION

### Alexandria University

*Bachelor of Science, Computer Science (SIM Program)*

Alexandria, EG

*Jun 2021 — Jun 2025*

- Graduate of Computer Science Software and Industrial Multimedia (SIM) department.

## WORK EXPERIENCE

### Fullstack Rust Engineer

Jul 2025 — Present

Tawuno

*Remote*

- Develop and maintain Rust-based backend services using Axum and SurrealDB.
- Worked with gRPC service definitions.
- Used Tilt to develop and iterate on Kubernetes-based local environments.

## PROJECTS

### Newsletter Email API (Zero To Production book) ([github.com/abd0-omar/contact-form](https://github.com/abd0-omar/contact-form))

May 2025 — Present

- Engineered a newsletter API in Rust using the Axum framework and PostgreSQL.
- Built end-to-end integration tests and CI pipelines with Docker and GitHub Actions.
- Implemented structured logging, tracing, and metrics for observability.
- Integrated Cloudflare R2 for database backups and Litestream for replication.
- Deployed and operated the service in a resource-constrained production environment on fly.io.

### URL Shortener with Access Control ([github.com/abd0-omar/url-shortener-with-a-twist](https://github.com/abd0-omar/url-shortener-with-a-twist))

Apr 2025 — Apr 2025

- Built a URL shortener using Rust, Axum, and PostgreSQL, including features for logging and performance metrics.

### Backend Rust Challenges (Shuttle.rs) ([github.com/abd0-omar/every-day-im-shuttling](https://github.com/abd0-omar/every-day-im-shuttling))

Jan 2025 — Mar 2025

- Solved a series of complex backend challenges by building microservices for tasks like web scraping, data serialization, and API authentication using Rust, Axum, and SQLite.

### POSIX Compliant Shell ([github.com/abd0-omar/codecrafters-shell-rust](https://github.com/abd0-omar/codecrafters-shell-rust))

Feb 2025 — Feb 2025

- Developed a POSIX-compliant Unix shell in Rust, implementing core functionalities.

### C# .NET Career 180 Bootcamp ([github.com/abd0-omar/career-360](https://github.com/abd0-omar/career-360))

Aug 2024 — Dec 2024

- Completed an intensive C# .NET Bootcamp, covering database integration, ERD design, Web APIs.

## CERTIFICATIONS & ACHIEVEMENTS

### Competitive Programming

Ongoing

- Solved over 500 problems on LeetCode, demonstrating strong proficiency in data structures and algorithms. [leet-him-code](#)

### High Performance SQL

Completed

- Completed the [highperformancesqlite.com](https://highperformancesqlite.com) course, applying indexing strategies and query performance optimization.

### Linux Administrator I & II

Completed

- Awarded certifications from the Information Technology Institute (ITI), validating skills in Linux system administration.

## SKILLS

- Languages: Rust, C#, TypeScript/JavaScript, Dart, C++, Java, Python, PHP, Zig
- DevOps & Tools: Docker, Kubernetes (Tilt), Git, GitHub, Linux, n/vim, helix
- Spoken Languages: English (Fluent), Arabic (Native)