




Abdelrahman Omar

RUST ENGINEER · BACKEND DEVELOPER

Alexandria, Egypt |  Portfolio

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Education

Alexandria University

B.S. IN COMPUTER SCIENCE

Alex, EG

June 2021 - June. 2025

- Computer Science SIM (Software and Industrial Multimedia) fresh grad.
- Focused on backend development using Rust and exploring systems programming concepts.

Technical Activities&Achievements

- Participated in ECPC and got 4th place out of 40 teams.
- Volunteered in HackerRank Club as a member of the Academic Committee and the competitive programming.
- Completed [highperformancesqlite](#) course that focused on Indexing and Query performance.
- Completed Linux Administrator I & II from ITI.
- Solved over 500 problems on LeetCode.

 [abd0-omar/leet-him-code](#)

Projects

Newsletter Email API (Following [Zero To Production Book](#))

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 [abd0-omar/contact-form](#)

May 2025 - Present

- Implemented a Newsletter's API in Rust using Axum framework and PostgreSQL with Docker and GitHub Actions.
- Wrote extensive unit/integration tests for the API, added logging and metrics and hosted on fly.io platform.

URL-Shortener With Access Control

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 [abd0-omar/url-shortener-with-a-twist](#)

April 2025 - April 2025

- Designed a URL-Shortener using Rust with the framework Axum and PostgreSQL along with loggings, metrics and statistics.

C# .NET Career 180 Bootcamp

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 [abd0-omar/career-360](#)

Aug. 2024 - Dec. 2024

- Completed C# .NET Bootcamp, covering database integration, ERD design, Web APIs, and Windows Forms development.

Linkedin Queens Auto Solver

OPEN SOURCE CONTRIBUTION

 [abd0-omar/linkedin_queens](#)

 [samimsu/queens-game-linkedin/pull/678](#)

May 2025 - May 2025

- Developed a browser automation tool to solve the LinkedIn Queens puzzle game automatically.
- Implemented image processing techniques to identify the game board state and cell colors.
- Engineered a solver using a backtracking algorithm with Depth-First Search (DFS) to find valid solutions.
- Contributed a "Show Solution" feature with solution caching to prevent re-computation for official puzzles.

Backend Rust Challenges

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 [abd0-omar/every-day-im-shuttling](#)

Jan. 2025 - Mar. 2025

- Completed a series of backend-focused challenges using mainly Rust, Axum and SQLite.

Skills

Languages Rust, C#, TS\JS, Dart, C++, Java, Python, PHP, Zig

Spoken Languages English, Arabic

Development Tools Vim, Git/Github, Linux, Docker