

Dezly Macauley

Backend Software Engineer (Rust, SQL, Linux, Shell Scripting)

Contact Information

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Professional Summary

Backend software engineer with a focus on systems-level programming in Rust, C, and C+. Builds reliable, type-safe backend services, RESTful APIs, and database-driven applications using PostgreSQL and SQLite. Experienced in Linux-native workflows, Docker containerization, and shell scripting. Career pivot from quantitative research toward high-performance backend and platform engineering.

Skills

- Low-Level Programming: Rust, C, C++
- Garbage Collected Languages: Go, Python
- Developer Tools: Arch Linux, Bash, Docker, Git, GitHub, Neovim
- Database Development: PostgreSQL, SQLite
- Communication: Technical Writing, Public Speaking

Projects

<https://github.com/dezlymacauley/rust-rest-api-service>

A high-performance Rust REST API service built with Axum, backed by PostgreSQL, and containerized with Docker. Designed for modern, type-safe web development and rapid API prototyping.

<https://github.com/dezlymacauley/postgres-dojos>

A highly reproducible, PostgreSQL and Python environment built for speedy onboarding and a professional developer experience.

Certifications:

Low-Level Programming

[Duke University - Rust Fundamentals](#) (January 2024)

[University of Michigan – Exploring C](#) (February 2024)

Garbage Collected Languages

[University of California, Irvine – Programming with Google Go Specialization \(October 2024\)](#)

Developer Tools

[Meta – Version Control](#) (September 2024)

Communication

[EF SET English Certificate - C2 Proficient](#) (March 2024)

Work Experience

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Food Business

- Supported daily operations including inventory management, customer coordination, and administrative tasks.

Freelance English Tutor (2019 – 2022)

Self-Employed

- Provided one-on-one English instruction to non-native speakers
- Developed lesson materials tailored to individual learning goals
- Supported students with written communication and grammar

Freelance Captioner / Transcriptionist (2020 – 2023)

Rev.com – Remote Platform

- Transcribed and captioned audio and video content to platform accuracy standards
- Managed multiple concurrent projects under tight deadlines
- Maintained consistent output quality across varied subject matter

Research Executive (2016 to 2018)

Kantar – Global Data, Insights, and Consulting Company

- Conducted quantitative and qualitative consumer research analysis
- Managed structured datasets and supported data-driven reporting
- Collaborated with cross-functional teams to deliver actionable insights
- Prepared client-facing reports and presentations

Education

- University of the Witwatersrand: BCom Marketing (December 2015)
- King Edward VII School (December 2011)