

# > Jynn Nelson

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## Experience

### **Senior Rust Engineer**—Redjack

January 2023–Present

- Refactored data processing to be massively parallel, decreasing runtime tenfold
- Redesigned the internal release process to be replicable and convenient
- Avoided spending two months building the wrong feature
- Taught an hour-long weekly class on **Rust** to 5 other engineers at the company

### **Systems Engineer**—Cloudflare

June 2021–December 2022

- Integrated a distributed **WASM** runtime with Chrome Devtools
- Added HTTP/3 (QUIC) interception support for a Secure Web Gateway
- Built internal tooling for diagnosing issues with distributed systems
- Decreased project build times by more than 20%

### **Independent Contributor**—**Rust** Language

October 2019–July 2023

- Founded the bootstrap team and decreased tooling build times by a factor of 9
- Led the docs.rs team and recruited 2 other team members
- Led the rustdoc team and stabilized intra-doc links
- Used user studies to holistically improve the tooling, including documentation
- Worked asynchronously with peers from many different cultures and time zones

### **Software Engineer**—YottaDB

December 2019–May 2021

- Designed a **Rust** API for an existing **C** codebase
- Refactored existing unsafe **Rust** to be memory-safe and maintainable
- Set up static analysis tools for catching undefined behavior in C

## Skills

- Expert in **Rust**
- Skilled with **C**, **bash**, **python**
- Experience with build systems, bindgen, LLVM, Cranelift
- Technical writing

## Projects

- **C** compiler written in **Rust**, using Cranelift: [github.com/jyn514/saltwater](https://github.com/jyn514/saltwater)
- Web server written in **C**: [github.com/jyn514/threaded-server](https://github.com/jyn514/threaded-server)
- Checker for broken documentation links: [github.com/deadlinks/cargo-deadlinks](https://github.com/deadlinks/cargo-deadlinks)
- Macro finding the size of a future at compile time: [github.com/jyn514/size-of-trait](https://github.com/jyn514/size-of-trait)

## Education

**B.S. Computer Science and B.S. Mathematics**—University of South Carolina