

# Ashton Wiersdorf

*Computer Scientist, PL Padawan, and Emacs Wizard*

## Education

- PhD, Computer Science**, *University of Utah*, Salt Lake City. **2022–2027**
- Bachelor of Science, Computer Science**, *Brigham Young University*, Provo. **2017–2022**
- Minor: Mathematics
  - 3.76 GPA

## Skill Set

**Languages:** Racket, Elixir, Clojure, Rust, Go, Julia, Coq

## Work History

- Software Engineer**, *Spiff*, Sandy, UT. **May 2021–August 2022**
- Built an interpreter for a custom DSL
  - Implemented a type inference engine emphasizing good error messages
  - Prototyped a compiler implementation of the same DSL
- SWE Intern**, *TazWorks (now MeridianLink)*, Draper, UT. **January 2020–April 2021**
- Eliminated daily-manifesting bugs in the company's core product
  - Ported legacy Ruby code base to Elixir to improve reliability and response times
- Intern**, *20 Billion Neurons GmbH*, Berlin, Germany. **September 2019–December 2019**
- Adapted a Golang project to be more robust under unstable network conditions
  - Dockerized AI application; built Travis CI script to automatically build and push images
- SWE Intern**, *TazWorks*, Draper, UT. **April 2019–August 2019**
- Developed an interpreter to replace microservices with in-line scripts in a DSL
- Programmer**, *Student Life Technology at BYU*, Provo, UT. **December 2016–April 2019**
- Stabilized decades-old legacy systems and introduced automated build strategies
  - Introduced version control to office; GitLab now used to manage all projects

## Personal Projects

- Compiler for a small lambda calculus targeting x86 architecture (Racket)
- Annotated implementation of  $\mu$ Kanren—an embeddable logic language
- Type inference engine with good error messages

## Leadership and Teaching Experience

- Volunteer:** Served as a full-time volunteer for the Church of Jesus Christ of Latter-day Saints in Germany
- Learned to speak fluent German and taught myself conversational Chinese
  - Trained volunteers weekly to improve volunteer effectiveness and well-being
  - Organized service projects and meetings involving volunteers across Germany
- Volunteer English Instructor:** Devised English lesson plans and instructed grade-school children in China for six weeks