Ashton Wiersdorf

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EDUCATION

University of Utah
PhD in Computer Science
2022–2027
Salt Lake City, Utah

• Dissertation topic: Type and macro systems

Brigham Young University
B.S. in Computer Science, Math minor

2017–2022 Provo, Utah

EMPLOYMENT

University of Utah
Research Assistant
Started Fall 2022
Salt Lake City, Utah

• Published at top-tier conferences on topics related to types and metaprogramming

Spiff Inc.

May 2021–August 2022
Software Engineer

Sandy, Utah

- · Built, maintained, and extended an Elixir-based interpreter for a financial DSL
- Mentored junior software developers

TazWorks (now MeridianLink)

Software Engineer Intern

January 2020–April 2021 Draper, Utah

• Eliminated daily-manifesting bugs in the company's core Elixir application

20 Billion Neurons GmbH

Software Engineer Intern

September-December 2019 Berlin, Germany

- 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

Student Life Technology at BYU *Programmer*

December 2016–April 2019 Provo, Utah

- Full-stack developer on new and legacy web applications
- Introduced version control and automated build pipelines

PROJECTS

See a full list of projects on my homepage and related sites such as Codeberg and GitHub.

Chorex Project on GitHub 🗹
First-ever library for choreographic programming in Elixir

TrackedFloats.jl Project on GitHub & Automatically track floating-point exceptions in Julia

Ysue Project on Codeberg 🗹

Text editor in Haskell featuring a rope data structure

µKanren Project on Codeberg **∠**

Walkthrough of the µKanren embedded logic language

TOOLS AND TECHNOLOGIES

- Languages (non-exhaustive) Racket, Elixir, Julia, Haskell, Rust, C, Go, Python, Clojure, Swift
- Web Development Phoenix and Phoenix LiveView (Elixir), Mojolicious (Perl), Ring (Clojure)
- Operating Systems Linux, FreeBSD, macOS
- Miscellaneous Git, Docker, Travis Cl

LANGUAGES

- English Native language
- German Fluent, CEFR level: C1-C2