

Ashton Wiersdorf

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EDUCATION

University of Utah

PhD in Computer Science

- Focus: Programming languages and type systems

Started 2022

Salt Lake City, Utah

Brigham Young University

B.S. in Computer Science, Math minor

- Cumulative GPA: 3.76/4.0

2017–2022

Provo, Utah

EXPERIENCE

Spiff Inc.

Software Engineer

- Built, maintained, and extended an interpreter for a language tailored to processing financial calculations
- Implemented a type inference system emphasizing comprehensible error messages

May 2021–August 2022

Sandy, Utah

TazWorks (now MeridianLink)

Software Engineer Intern

- Eliminated daily-manifesting bugs in the company's core product
- Ported legacy Ruby code base to Elixir to improve reliability and response times

January 2020–April 2021

Draper, Utah

20 Billion Neurons GmbH

Software Engineer Intern

- 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

September–December 2019

Berlin, Germany

Student Life Technology at BYU

Programmer

- Stabilized decades-old legacy systems and introduced automated build strategies
- Introduced version control to office; GitLab now used to manage all projects

December 2016–April 2019

Provo, Utah

LEADERSHIP AND TEACHING

Instructor and Mentor

Spiff Inc.

- Mentored coworkers interested in learning how to program
- Delivered weekly instructions on various topics related to software development

May 2021–August 2022

Sandy, Utah

English Instructor

Impact Exchanges

- Planned and delivered English lessons to grade-school children for six weeks

June–July 2017

China

Full-time Volunteer

The Church of Jesus Christ of Latter-day Saints

- Learned to speak fluent German and taught myself conversational Chinese
- Gave weekly instruction and training to other volunteers
- Organized service projects and training meetings involving volunteers across Germany

2014–2016

Germany

PROJECTS

See a full list of projects on my [personal site](#) and related sites such as [GitHub](#) and [SourceHut](#).

Type inference with errors

SourceHut

Type inference for a small lambda calculus with decent error messages

μ Kanren

SourceHut

Walkthrough of the μ Kanren embedded logic language

lambda-x86

GitHub

My first compiler, which compiles a small Lisp to x86

PRESENTATIONS

Informal

- Macros with Elixir 2019

SCHOLARSHIPS AND AWARDS

- Departmental Fellowship 2023
- Academic scholarship for half tuition 2017–2019
- Runner-up, Utah Sterling Scholar 2014
- 1st place, Utah State Science Fair 2013