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ashton314
in ashton-wiersdorf
Keybase: ashton314

Ashton Wiersdorf

Computer Scientist, PL Padawan, and Emacs Wizard

Education

Bachelor of Science, Computer Science, Brigham Young University, Provo. **2017–2021**

- Minor: Mathematics
- 3.76 GPA
- Academic scholarship for half tuition
- Sang as member of the largest collegiate male choir in the US before world-wide audiences

Skill Set

Languages: Elixir, Racket, Clojure, Perl, Rust, Go, Julia, Swift, Prolog, C++, Java

Frameworks: Phoenix and Phoenix LiveView (Elixir), Ring (Clojure), Mojolicious (Perl)

Development Tools: Emacs, GNU Make, Git, Docker, Travis CI, Bash, GitHub, GitLab

Platforms: macOS, Linux, FreeBSD, iOS

Work History

Software Engineer Intern, TazWorks, Draper, UT.

January 2020–Present

- Eliminated daily-occurring bugs in the company's core product

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

Software Engineer Intern, TazWorks, Draper, UT.

April 2019–August 2019

- Developed a DSL to replace several microservices with simpler in-line scripts

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
- Pioneered usage of a new framework which is now used office-wide
- Trained coworkers regularly; topics included Git Flow and the Laravel Web Framework

Personal Projects

- Checkers player with custom-built Negamax search engine (Scheme, on GitHub)
- Web server simulating a genealogy program (Clojure)
- Lexer, parser, interpreter, and query optimizer for a Prolog-like language (C++)
- Multiple real-time web applications (Elixir, Phoenix Framework, on GitHub)
- Compiler for a small lambda calculus targeting x86 architecture (Racket, on GitHub)

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

Eagle Scout: Planned and organized a food and clothing drive for the poor