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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 (Elixir), Mojolicious (Perl), Ring (Clojure), Vue (JavaScript)

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

Platforms: macOS, Ubuntu Linux, FreeBSD, iOS

Work History

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

Intern, *Better Linux*, Provo, UT.   **Summer 2013**
- Created a customizable systems utility which enabled my full-time coworkers to model their software in extreme environments

Personal Projects

- Scheme interpreter, with naive and optimized variants (Perl, on GitHub)
- 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++)
- Meeting agenda creation web application (Elixir: Phoenix Framework, 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