

Benjamin F. Wilson

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Skills

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- Haskell, C++, C, PHP, Bash, Java, Python
 - SQL, MySQL & MongoDB management
 - Web Dev: HTML5, CSS, JS, TypeScript
 - Full-stack application Design & Development
 - Software Verification, Testing, CI/CD
 - Servers, Networking, DNS
 - Leadership: Project & Team Management
 - Computer Science Researching
 - Public Speaking & Presentation
 - Git, Github, AWS, \LaTeX
 - Data Visualization with OpenGL(ES)/GLSL
 - Programming Language Design

Education

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- M.S. - Computer Science, Oregon State University (OSU), Corvallis OR** **2021**
- Thesis: Structuring Teachable Knowledge through Program-Concept Classifications
- B.S. - Computer Science, Oregon State University (OSU), Corvallis OR** **2020**

Experience

Research Assistant, Programming Languages Group, OSU **2020 - 2021**

- Designed technique for analyzing program-concept classifications via Formal Concept Analysis
- Co-wrote the programming language BoGL in Haskell, and engineered Haskell/NGINX/React stack on AWS
- Led development on research group website, BoGL documentation/tutorials, and BoGL interpreters

Teaching Assistant, OSU **Sept. 2018 - June 2020**

- Worked with students in introductory Computer Science 160/162 courses to teach C++ & Haskell
- Ran labs, graded assignments, provided office hours, and ran after-hours study sessions

Core Contributor, Parse Community on Github **Jan. 2017 – June 2018**

- Oversaw maintenance of the Parse PHP SDK, performed code reviews, and lead testing & development
- Greatly improved quality of SDK test coverage, style enforcement, CI via Travis CI, and documentation

Head Software Engineer, Axolsoft, Upland CA **Jan. 2015 - Sept. 2017**

- Co-founded Axolsoft, a full-stack and mobile applications LLC
- Built & managed client & company server systems with PHP/SQL using MySQL
- Created APIs powered by PHP for managing databases using an object oriented approach
- Developed customer management software and payment tools with Braintree
- Contributed patches on Github to the Braintree PHP and Parse PHP SDKs, both being used at Axolsoft
- Developed front-end customer websites in HTML5/CSS/JS, including the axolsoft.com website
- Built email system for crafting & sending emails with DKIM signatures; also setup SPF and DMARC

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