

Spencer Pearson

Last Updated on 23rd March 2020
github.com/speezepearson/resume

speezepearson.github.io

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EDUCATION

U. WASHINGTON

MASTER OF SCIENCE

Computer Science

GPA 3.72; 2015-2017

Concentration: Software Engineering

UC SANTA BARBARA

BACHELOR OF SCIENCE

Physics, Computer Science

GPA 3.98; 2010-2015

ACTIVITIES

Seattle Rationality [Organizer] | 2015-

Running workshops and reading groups to help people make their lives saner and more optimal.

Seattle Effective Altruism | 2016-

Giving and organizing talks, meetups, and special events.

SKILLS

Expert in

- Python
- Bash
- Git

Proficient with

- Java
- Go
- C/C++
- Ruby (incl. Rails)
- JavaScript / TypeScript
- SQL
- Haskell
- Mathematica

EXPERIENCE

DROPBOX | SOFTWARE ENGINEER

Jan 2018 - present

- Built a metrics pipeline that ingests >10M samples/min and lets other Dropbox developers run complex queries on their data in near-real-time
- Architected and implemented a highly available job-execution service, to generate and send reports based on that pipeline's data
- Designed and implemented the client behavior that ensures timely, customizable metric-reporting without risk of DDoS

APPFOLIO | SOFTWARE ENGINEERING INTERN

Summers 2014, 2015

- Built a full-stack Rails application enabling custom information sharing and payments between property managers and owners on the AppFolio platform
- Developed a new user experience for executing and viewing complex database queries

ZENTOPY | SOFTWARE ENGINEERING INTERN

Summer 2013

- Iteratively improved a full-stack cloud file storage application to reduce errors and accelerate deployment
- Designed and implemented software to display and manipulate stored files, including the front-end (AngularJS), API, server (Python/Flask), and database (MongoDB)

PUBLICATIONS

EVALUATING AND IMPROVING FAULT LOCALIZATION

2015 - 2017 | tinyurl.com/srp-fl-paper

- Led a six-person research team over two years
- Developed a novel class of automated debugging tools, 20% more accurate than existing techniques
- Demonstrated a systematic methodological flaw in nearly all existing fault localization research
- Won 3rd place in the 2016 ACM Student Research Competition
- Cited from U. Texas, U. Massachusetts, Peking U.

PROJECTS

BROWSERGUI | ULTRA-PORTABLE PYTHON GUI LIBRARY

github.com/speezepearson/browsergui

- Runs a GUI in the only frontend every computer has: a browser
- Works out-of-the-box on every major OS / Python version
- Extensively documented
- Carefully architected to feel like natural Python code, not a thin wrapper around a foreign GUI framework

PANFIG | TOOL FOR FIGURE DEFINITIONS IN MARKDOWN

github.com/speezepearson/panfig

- Pandoc plugin, allowing documents to programmatically describe how to generate their figures from scratch
- Enables standalone text files to compile supporting images without accompanying files/scripts/build processes