

Spencer Pearson

Last Updated on 18th October 2021
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

GOOGLE | SOFTWARE ENGINEER

Jul 2020 - May 2021

- Designed a service to let BigQuery devs instantly load TB of data into experimental instances for ad-hoc testing
- Set up resource monitoring/alerting, preventing multiple multi-hour client-team-blocking outages every week

DROPBOX | SOFTWARE ENGINEER

Jan 2018 - Jul 2020

- 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

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

BIATOB | WEB APP TO HELP PEOPLE CLARIFY THEIR BELIEFS

biatob.com · github.com/speezepearson/biatob

- Helps people assign probabilities to their beliefs and offer bets to their friends
- Skills used: Python, Elm, Protobuf, MySQL; UI design, system design

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