

Contact

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Annie Robison

SUMMARY

Experienced software engineer pursuing an MS in Computer Science at UC Davis.
Interested in computer architecture and high-performance computing.

EDUCATION

MS in Computer Science (in progress), UC Davis, 2020-Present, 4.0 GPA

Advanced Program in Software Engineering, UC Berkeley Extension, 2019, 4.0 GPA

BA in Economics-Mathematics, Whitman College, *summa cum laude*, 2015, 3.94 GPA

INDUSTRY EXPERIENCE

Programmer Analyst PinPoint Research

Emeryville, CA | Nov 2016 - Present

- Oversees and develops technology for automatic speech recognition (ASR) products. This includes technology to audit the accuracy of ASR models, analyze ASR data to come up with frequent word confusions, and perform in-place word substitutions, all utilizing Python and PostgreSQL.
- Builds data migration pipelines to/from clients and vendors. These pipelines have included SOAP, REST, and GraphQL APIs, built using PHP and Python.
- Uses PHP to develop data-intensive web reports to track study metrics.

Data Scientist Plexuss, Inc.

Walnut Creek, CA | Feb 2016 - Nov 2016

- Developed machine learning algorithms to match prospective students with their best-fit colleges. Utilized R and MySQL to build algorithms and PHP to incorporate them into the site's back end.
- Developed onboarding process for new users with PHP and MySQL. Optimized queries and logic to improve site speed and user experience.
- Automated various tasks for sales team including web scraping and sending client emails.

Analyst BetterHelp

Sunnyvale, CA | July 2015 - Feb 2016

- Designed and developed landing pages and conducted A/B tests for funnel optimization.
- Gathered insights from user data with R to improve acquisition and retention efforts.
- Managed marketing channels including Google and Pinterest with \$100k+ monthly spend.

TEACHING EXPERIENCE

Associate Instructor - Interactive Media I UC Davis Department of Design, Fall 2021

- Led lectures and studio sessions, teaching the fundamentals of HTML and CSS to 25 students with no prior coding knowledge.
- Met with other instructors in the department to plan course content.
- Supervised teaching assistant and coordinated assignment grading.

Teaching Assistant - Computer Organization & Machine-Dependent Programming UC Davis Department of Computer Science, Summer 2021

- Conducted office hours to help students understand course content and learn how to approach challenging homework problems.
- Graded assignments, quizzes, and exams for 70+ students.

Teaching Assistant - Interactive Media II UC Davis Department of Design, Spring 2021

- Met with students individually to help with design planning and code debugging.
- Graded assignments for 20+ students.
- Helped lead class meetings including virtual studios and feedback sessions.

RESEARCH EXPERIENCE

- *Towards Efficient Hardware-Assisted Address Sanitization*; Chuck Rozhon, Maryam Babaie, and Annie Robison; Advanced Computer Architecture; UC Davis. Explored ARM's hardware-assisted address sanitization through gem5 simulations. Used gem5 statistics to pinpoint sources of overhead. Detailed plans for hardware and software solutions to target those sources.
- *Meta Sequence-to-Sequence Learning for Low-Resource Neural Machine Translation*; Chitrabhanu Gupta, Annie Robison, Julian Angeles, and Maryam Zolfaghar; Natural Language Processing; UC Davis; 2020. Applied meta sequence-to-sequence learning to neural machine translation by extending the original PyTorch implementation.
- *Rational Action in Open Source Software Development*, Annie Robison, Economic Sociology, Whitman College, 2015. Explored the motivations of software engineers participating in open source development.

SCHOLARSHIPS AND HONORS

Pearson Achievement Scholarship, Whitman College, 2012-2015

Distinction in Economics & Mathematics Major Examination, Whitman College, 2015

TECHNICAL SKILLS

C / C++
Python
PHP
gem5

x86
PostgreSQL
MySQL
Apache

Unix / Bash
AWS
HTML / CSS
JavaScript