Education

Oregon State University

Bachelor's degree in Computer Science

Publications

- **A Visual Notation for Succinct Program Traces** Divya Bajaj, Martin Erwig, Daniel Fedorin and Kai Gay
- Adaptable Traces for Program Explanations
- Divya Bajaj, Martin Erwig, Daniel Fedorin and Kai Gay

Work Experience

Undergraduate Research Assistant Oregon State University Programming Languages, Haskell, Language Design - Designed and implemented a programming language for exploring dynamic program

- explanations.
- Developed Haskell-based interpreter, typechecker, query language, and other tooling.
- Contributed to research papers published to VL/HCC and APLAS.

Teaching Assistant Oregon State University Programming Languages, Haskell, Education December 2020-March 2020 - Assisted the professor of the programming language theory course taught to over 200 students. - Tutored students during office hours to help with homework and projects, consisting of Haskell exercises and projects.

- Organized and led study sessions attended by over 100 students.

Selected Projects

Capstone Project	Oregon State University
• Haskell, Programming Languages, Education	2019-2020
– Designed and wrote an education oriented programming language based around the	
computation inherent in board games.	
– Designed a type system with subtyping and powerful error message	ging.
– Wrote an interpreter with integration to an editor front-end writt	en in React.
Personal Projects	0016 commont

Haskell, Linux Administration, Web Design

2016-current

- Maintained several Linux game servers, running modified games open to the public.
- Online game coordinator, with a REST API written in Haskell using Servant and a front-end in React. Used websockets for automatic lobby updates.

Skills

Languages: C, Go, Javascript (including NodeJS), Python, Haskell, Lisp, R, Shell Tools: Docker, Nix, Git, SVN, LATEX, Linux tools

Miscellaneous: Linux server management, excellent verbal and written communication skills, strong troubleshooting/debugging skills, leadership, teamwork, strong editing and proofreading skills.

VL/HCC 2021

Corvallis, OR

Sep. 2017-August 2021

APLAS 2021

Sep. 2018-Current