Sora Kanosue

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M.S. Student in Electrical Engineering and Computer Sciences at UC Berkeley advised by Sarah Chasins, where my research focuses on programming languages and how they can be made more usable.

Education

M.S. in Electrical Engineering and Computer Sciences
University of California, Berkeley
2023–2024

B.A. in Computer Science, Minor in Math
University of California, Berkeley
2019–2023
GPA: 3.97

Projects

CNL
Python
An embedded domain-specific language that makes it possible to write a data pipeline in less than 100 lines of code

RISCV151
Verilog, RISC-V
A 3-stage pipelined CPU achieving 96.1% branch prediction accuracy on matrix multiplication benchmarks

SEPO
RISC-V
Building a symbolic execution engine to find peephole optimizations for RISC-V compiler outputs

Areas of Interest

Programming Languages, Human-Computer Interaction, Computer Architecture

Experience

Researcher
PLAIT Lab
January 2022–Present
Designing and implementing a domain-specific language to write data processing tools, allowing nontechnical users to solve problems normally requiring programming experience

Treasurer
Berkeley Model United Nations
May 2022–Present
Designed and oversaw the creation of a Java-based invoice automation system serving over 200 clients with transactions annually totaling over $140,000

Software Development Engineering Intern
Amazon
May–August 2022
Implemented server-side rendering for Amazon Photos Info-Panel feature for Fire TV's Ambient mode using Java and Alexa Presentation Language

Software Engineering Intern
Cohesity
May–August 2021
Developed a Python and Bash-based parallelized pre-upgrade check for Cohesity's distributed system clusters

Teaching

Computer Security—Summer 2023
Programming Languages and Compilers—Fall 2023

Awards

Phi Beta Kappa
EECS151/251A Outstanding Designer Award
Dean's List x2
Honors To Date x7

Skills

Python, Java, OCaml, Verilog, x86, RISC-V, C