CYNTHIA RICHEY

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EDUCATION

Bachelor of Science in Computer Science 2019 - March 2023
Paul G. Allen School of Computer Science & Engineering, University of Washington

Master of Science in Computer Science March 2023 - March 2024
Paul G. Allen School of Computer Science & Engineering, University of Washington

WORK EXPERIENCE

AT&T June 2022 - September 2022
TDP Software Engineer Intern

- Intern on the TDP tools team, working with technologies such as Java, JavaScript, Spring Boot, and React.
- Processed tickets from beginning to end, both alone and as part of a team; reviewed pull requests.

Paul G. Allen School of Computer Science & Engineering March 2022 *(ongoing)*
Research Assistant

- Research assistant with the PLSE group, working on ruler, a tool that uses equality saturation techniques to infer rewrite rules over arbitrary domains.
- Implemented a feature that persists previously-discovered erroneous rules across multiple runs of ruler. Designed and led performance analysis. Primary development in Rust.

Paul G. Allen School of Computer Science & Engineering March 2022 - June 2022
Teaching Assistant

- Teaching assistant for CSE 341: Programming Languages, which covers functional programming paradigms and program interpretation in OCaml and Racket.
- Contributed substantially to the development of new assignments; documented, refactored, and extended course materials (including a series of fuzzers for testing students' interpreters); managed grading; held office hours; taught a weekly lecture.

Geneial June 2021 - March 2022
Software Engineer Intern

- Created a proof of concept supporting exact-match querying of an encrypted genomic database, using Google's open-source homomorphic encryption (HME) transpiler.
- On the basis of my work, Geneial secured a contract with a leading American medical university to work HME technologies into their data pipeline.
- Primary development in C++; other technologies included Linux (Ubuntu), AWS, and Bazel.

UW Math Study Center September 2020 - March 2022
Tutor

- As an official employee of the UW Math Department, tutored students in precalculus and calculus (MATH 120, MATH 124/5/6).

HONORS & AWARDS

Dreama Frost Endowed Scholarship, Leo Maddox Foundation Scholarship, Burkhardt Family Endowed Scholarship

SKILLS & HOBBIES

Languages & Technologies Rust, Java, C, C++, SQL, Linux, AWS, Git, OCaml, Racket, Spring Boot, JavaScript