MOLLY MACLAREN

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EDUCATION

University of California San Diego *Sept 2021 - Present*
B.S. Computer Engineering 3.5/4.0

· Past coursework: Advanced Data Structures, Systems Programming, Algorithm Design, Software Engineering, Intro to AI, Discrete Math, Engineering Statistics, Analog Design, Circuits and Systems, Signal Analysis, Managing Diverse Teams, Intro to CS Research
· Current coursework (complete by December 2023): CS Theory, Programming Languages, Operating Systems, Research Methods for User-Centered Programming Language Design

EXPERIENCE

Programming Languages Research Assistant *June 2023 - Present*
Kale Research Lab

· Parsed and analyzed 11k errors from 6k repository commits to determine most frequent and costly errors for building compilers in the Rust programming language.
· Published a paper which was accepted into HATRA, a workshop in SPLASH 2023.
· Developing a VScode extension to automatically log errors via telemetry for analysis and to provide analytics to Rust programming tool developers and their users.

Security Research Assistant *Sept 2022 - August 2023*
Ujima Security and Privacy Research Lab

· Created a research proposal as part of CSE's Early Scholars Research Program.
· Designed vignette-style survey questions based on weaknesses discovered in privacy policies.
· Scraped and categorized 30k Reddit posts for NLP tri-gram analysis.
· Presented a poster at JSOE's Undergrad Research Symposium.
· Published a paper and gave a talk at WIPS, a workshop in SOUPS 2023.

Cyber Competitions Committee *April 2022 - Present*
ACM at UC San Diego

· Organized Capture-The-Flag (CTF) teams for new members to practice skills in cyber security.
· Competed in CTFs such as NCL, CSAW, and CCIC.
· Interested in Forensics, Cryptography, and Reverse Engineering.
· Designed an Open Source Intelligence (OSINT) challenge for SDCTF in May 2023.

TECHNICAL SKILLS

Languages	Java, Python, C, C++, TypeScript, JavaScript, Rust, ARM Assembly
Tools	Git, UNIX, SQLite