Rory Zahedi

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Education

M.S. Computer Science   **Jan. 2022–Jun. 2023**
University of California, Santa Barbara   *GPA: 4.0*
- Emphasis in Computer Systems; focusing in Computer Architecture research in UCSB's ArchLab

B.S. Computer Science   **Sept. 2018–Mar. 2022**
University of California, Santa Barbara   *Computer Science GPA: 3.80*
- Coursework: Computer Architecture, Artificial Intelligence, Machine Learning, Databases, Computer Networks, Software Defined Networking, Data Structures & Algorithms, Operating Systems, Probability and Statistics, Object Oriented Programming, Compilers, Cryptography

Experience

HRL Laboratories   **Sep. 2022–Jan. 2023**
Robotics Software Engineer Intern   *Malibu, CA*
- Prospective intern using ROS to program new functionality for HRL's marine research robot

Apple   **Jun. 2022–Sep. 2022**
Core Bluetooth and Sensing Software Engineer Intern   *Cupertino, CA*
- Piloted prototype and foundation for upcoming Apple Airpods features, interfacing on the systems and networking level
- Functionality to be extended across Apple's product suite

Lenovo   **Jan. 2022–May. 2022**
Software Engineer Intern   *Remote*
- Constructed front and backends of dynamic user feedback webpages for the Lenovo app (**50,000+ downloads**) using HTML/CSS, JS, Java, and SQL

Pfizer   **Jun. 2021–Aug. 2021**
Robotic Software Engineer Intern   *Remote*
- Automated liquid pipetting for the hamilton robotic machine with python scripts and C programming
- Empowered non-technical oriented scientists to perform complex pipetting steps with machine level precision and speed
- Functionality utilized by the mass spectrometry team to aid in **Pfizer's vaccine development** and other operations

Projects

CROMCH | *C++,Python,RISC-V assembly, Spike*   **Sept. 2021-Jun. 2022**
- Using C++ to modify SPIKE source code to capture program state information (checkpointing), we analyze and apply a series a of optimization techniques with Python to reduce program size and runtime on a post-compile time basis

Pamelemma:Automatic Responsive Proof Grader | *C++, Z3/CVC4, GoogleTest,Docker*   **Jan. 2021-Sept. 2021**
- Collaboratively implemented new functionality to UCSB's educational "Mentor" software to **automatically** grade and give responsive feedback to students' proofs for the Automata and Formal Languages class
- Expected use of **200 students annually**, as well as course staff, to facilitate faster and more responsive learning
- On average, student proof feedback calculated to be **2000% faster** compared to manual grading and feedback process, saving **20+** hrs/week for instructors as well

Technical Skills

Languages: C/C++/RobotC, Python, Java, SQL, HTML/CSS, JavaScript, Swift, P4
Developer Tools: GDB,XCode, Docker, Git, VS Code
Platforms/Frameworks: GoogleTest, Linux, IOS, React, Z3, CVC4, RiscV, AVFoundation

Leadership / Extracurricular

Robotics Club   **Sept. 2019–Present**
President (2021-Current)/ Vice President (2019-2020) / Software Lead (2019-2020)   *University of California, Santa Barbara*
- Pioneering **UCSB's largest outreach program** bringing robotics education to **27 classrooms** across 9 schools in Goleta (2021-2022)
- Organized multidisciplinary LoRa rover project, shipping parts to students across California, during the pandemic, for hardware members to collaborate on a quarter long project via "baton passing" the rover parts through mail (2021)

CodePath   **Jan. 2021–Jun. 2021**
Techfellow- IOS Instructor   *Santa Barbara, California*
- Co-founded CodePath at UC Santa Barbara, teaching 20+ students IOS design principles and app development with Swift and XCode