

NEEMA ZAHEDI

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🌐 [Personal Site](#)

Education

M.S. Computer Science

Mar. 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

Headphones, Accessories, and Systems Software Engineer Intern

Cupertino, CA

- Piloted prototype and foundation for upcoming Apple AirPods features for iOS, interfacing on the systems and networking level
- Functionality to be extended across Apple ecosystem

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

Pamlemma: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, Swift, Java, SQL, JavaScript, P4

Developer Tools: GDB,XCode, Docker, Git, VS Code

Platforms/Frameworks: GoogleTest, Linux, IOS, React, Z3/CVC4, RiscV, AVFAudio, Apple Network [framework]

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](#)