Isabel Suizo

isuizo.github.io • isuizo@ucsd.edu

EDUCATION

University of California, San Diego   La Jolla, CA
BS in Computer Engineering, Minor in Economics   June 2022
Graduated as summa cum laude with highest distinction in ECE Department
GPA: 3.993, Major GPA: 4.0

RESEARCH EXPERIENCE

University of California, San Diego   La Jolla, CA
Undergraduate Researcher, Computer Science and Engineering   February 2021 – August 2022

- Advised by Professor Voelker and mentor, Ariana Mirian.
- Completed undergraduate thesis, "Excavating Device Characteristics: Identifying User Behaviors via Network Traffic Flows" to measure the efficacy of common security practices. Designed ML model that achieved 99% testing accuracy in identifying IoT vs. non-IoT devices using features extracted solely from anonymized network traffic.
- Researched and identified mitigations for over 400 vulnerabilities to contribute to research project regarding system administrators' likelihood to fix vulnerabilities.
- Improved error logging system on data ingestion servers.

WORK EXPERIENCE

Google Cloud   Sunnyvale, CA
Software Engineer   August 2022 - Present

- Sped up data onboarding process of GCP Retail users by designing and implementing new features to streamline data ingestion process for recommendation and search models used in customers' e-commerce sites.
- Ensured high availability of Retail services through on-call duties including fixing production server issues and rolling out scheduled releases.

Nextdoor   San Francisco, CA
Software Engineering Intern   June 2021 – September 2021

- Decreased process scaling workflow time by 93% by implementing dynamic scaling of asynchronous infrastructure tasks.
- Fortified security of users on Nextdoor app by building pipeline for Trust and Safety team using a third-party service for link verification of URLs posted on the platform.

Nutanix   San Jose, CA
Software Engineering Intern   June 2020 – September 2020

- Increased velocity through robust automation for testing new disaster recovery services and UI features using backend API calls and Selenium.
- Reduced storage costs for customers by implementing ML pipeline for migrating cold data to secondary storage.

TEACHIING EXPERIENCE

University of California, San Diego — La Jolla, CA

Tutor, Computer Science and Engineering Department — January 2021 – June 2022

- Tutored theory-based, upper-division algorithms (CSE 101) for four quarters. Hosted weekly open-forum office hours and one-on-one sessions. Graded homework and exams. Monitored and responded to inquiries on online class forum, Piazza. Received 100% recommendation rate from students across reviews from 4 quarters.
- Tutored data structures and algorithms course (CSE 100) in C++ for one quarter. Assisted students with weekly programming assignments for five hours per week.

LEADERSHIP & SERVICE

Newman Center at UC San Diego — La Jolla, CA

Student Ministry Coordinator — January 2019 – June 2022

- Organized and facilitated fellowship events for 100+ students involved with the Newman Center Ministry.
- Participated in several service events including: the Advent Giving Tree, an effort to collect and distribute warm clothes and toys to homeless families during the holiday season, donation collection and distribution to homeless community in Barrio Logan, and COVID letter writing in support of healthcare workers during the peak of COVID in 2020.

Birthline — San Diego, CA

Volunteer — January 2022 – June 2022

- Kickstarted and ran social media accounts of Birthline to advertise services to expecting families in need and to attract potential donors.
- Grew account to 100+ followers and received 4000+ views on advertising reels on Instagram.
- Organized donations to distribute to low-income families.

EDGE Program — La Jolla, CA

Mentor — September 2020 – June 2021

- Mentored local high school girl interested in pursuing a degree in computer engineering. Met regularly to discuss college applications and courses to take in preparation.
- Participated in bonding events and workshops to expose high school girls to engineering-focused topics.

HONORS & AWARDS

Summa Cum Laude	June 2022
St. Ignatius of Loyola Outstanding Service Award	June 2022
Henry Booker Award	June 2022
Highest Distinction in ECE Department	June 2022
Provost's Honors	September 2018 – June 2022

COMPETITIONS

Nextdoor R3 Hackathon	July 2021
SD Hacks	October 2020
Nutanix U-Hack (First Place)	August 2020
Violet Hacks (Top 10 Finish)	August 2019
WIC Coding Competition (Top 7 Finish)	May 2019
IEEE Quarterly Project	December 2018