

## Education

### UCLA

B.S. Electrical Engineering 2019

- Intro to Eng Design, Systems and Signals, Circuit Theory I and II, Digital Signal Processing, Logic Design of Digital Systems, Intro to Digital Design Laboratory, EE Probability and Statistics, Communication Systems, Principles of Semiconductor Device Design, Engineering Electromagnetics, Lasers in Biomedical Applications, Principles of Feedback Control
- Intro to Computer Science I (C++) and II (C++), Discrete Math, Computer Organization, Computer Networks: Physical Layer

## Summary

- Passionate about building equitable education tools and practices and helping eradicate all diseases
- Represent and mentor women in the engineering field

## Skills

**MOST EXPERIENCED:** Python, Terraform, Bash, Git, Snowflake, AWS

**COMFORTABLE:** SQL

**LANGUAGES:** English, Spanish

## Employment

### CHAN ZUCKERBERG INITIATIVE

Senior Software Engineer

Redwood City  
Aug. 2019 to Current

- Standardizing data tools like Snowflake, Airflow, Databricks, Superset, and Amundsen across the company.
- Utilizing Terraform to manage AWS resources like IAM, SSM, ECR, ECS, EKS, etc. Continuously teaching others across the company good practices with Terraform.
- Created connectors for Snowflake's open source project SnowAlert <https://github.com/snowflakedb/SnowAlert> to then digest data and alert and monitor through comprehensive queries in data visualization and alerting tools like Periscope and Pagerduty.
- Constructed Airflow on Kubernetes by creating a new development environment for engineers and data scientists to safely test DAGs, built a new CICD pipeline, and designed new credential management protocol. Constantly learning to improve the experience for our Data Scientists to make their workflows safer and more efficient.
- Deployed Databricks with their Terraform provider and managed onboarding users with our IDP.
- Managing Snowflake Provider at CZI <https://github.com/chanzuckerberg/terraform-provider-snowflake> and collaborating on solutions with external contributors through Github. Presented my work at two Snowflake conferences in 2021.
- Owned developing and rolling out Amundsen (<https://github.com/amundsen-io/amundsen>) on EKS to our Data Science and Data Engineering teams by working with stakeholders to prioritize features and gather feedback from users. Contributing back to the open source community through Amundsen's Github with improvements to the platform.
- Took ownership of building and deploying Superset (<https://github.com/apache/superset>) on EKS for Data Scientists across CZI. Stood up deployments through customizing helm charts and modifying docker images hosted on ECR to satisfy our internal needs and wants.

### TESLA

Energy Products Engineering Intern

Palo Alto, CA  
June 2018 to Sept. 2018

- Used Python, MySQL, and Apache Spark to analyze data to determine the status and efficiency of the Powerwall fleet
- Created dashboards using Superset and DeckGL to visualize the success/failure of the Powerwall fleet based on their power output performance
- Modified the firmware in C and Go to push a unique log from the Powerwall's gateway to DataTank where we can perform analytics to better solve problems occurring in Powerwalls

### MICROSOFT

Explorer Intern- Cloud and Enterprise Security

Redmond, WA  
June 2017 to Sept. 2017

- Created a dashboard that recorded and displayed data from a security web-application to analyze how users navigate the app
- Used JavaScript and Python to send data from the application to an APM and wrote queries which would then render graphs displaying the data

### QUALCOMM

Software Engineer

San Diego, CA  
June 2016 to Sept. 2016

- Updated drone camera software to the latest API in Java using Android Studio
- Worked on a team to produce a consumer product using QC design processes

## Leadership and Activities

### PRIMARY SCHOOL · Mentor

Sept. 2020 to Current

- Mentor at the Primary School through Zoom by practicing reading and comprehension skills, writing a creative story book, and connecting over similar interests.

### ERG SPROUTS · Lead

Aug. 2020 to Mar. 2022

- Sprouts at CZI is an ERG comprised of early career professionals aimed at creating a community that can be used both socially and as a means of support, collaborating with University Recruiting to strengthen our candidate pipeline, and accelerating professional development through deliberate practice.
- Initiated interest in strengthening our relationship with the Boy and Girls Club of the Peninsula by organizing meetings with stakeholders and brainstorming ideas on workshops that best fit the organization's programming.
- Participated in DEI (Diversity, Equity, and Inclusion) organizing and conducted conversations with Sprouts to educate and spark dialogue around why DEI is important.

### WATT (WOMEN ADVANCING TECH THROUGH TEAMWORK) · External President and Co-Founder

Jan. 2016 to May 2019

- Founded IEEE WIE division at UCLA to focus on outreach, retention, mentorship, and social awareness
- Organize events, hold meetings, elect officers, and work with the department and industry representatives
- Created a Big Sister Little Sister program with a nearby middle school to inspire younger girls to pursue a career in engineering

## Awards

### UCLA Samueli School of Engineering · RUSSELL R. O'NEILL DISTINGUISHED SERVICE AWARD

June 2019

An award in recognition of outstanding contributions to the undergraduate student body, student organizations, the School, and to the advancement of the undergraduate engineering program through service and participation in extracurricular activities. Received award due to co-creation of WATT and leadership involvement in other UCLA Engineering student organizations.