ALLISON DOAMI

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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

• Help build tomorrow and make a difference in the world
• Represent women in the engineering field and inspire others

Skills

MOST EXPERIENCED: Python, Terraform, Bash
COMFORTABLE: SQL, AWS
LANGUAGES: English, Spanish

Employment

CHAN ZUCKERBERG INITIATIVE
Redwood City
Software Engineer
Aug. 2019

• First Data Infrastructure Engineer hired at CZI supporting all Initiatives- Education, Science, and Justice & Opportunity
• Standardizing tools across the company, which includes Snowflake, Airflow, and data visualization tools like Periscope.
• Using terraform to manage AWS resources like IAM, SSM, ECR, ECS, EKS, etc. 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.
• Working on Airflow on Kubernetes by creating a new development environment for engineers and data scientists to safely test DAGs, building a new CICD pipeline, and designing a new credential management protocol.
• Deployed Databricks with their Terraform provider and managed onboarding users with our IDP.

TESLA
Palo Alto, CA
Energy Products Engineering Intern
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
Redmond, WA
Explorer Intern- Cloud and Enterprise Security
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
San Diego, CA
Software Engineer
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

Projects

IDEA HACKS 2018: LESS STRESS DRESS
Jan. 2018

• Developed a smart closet for visually impaired people that helps them get dressed in the morning based on the weather of a specified location
• Utilized an Arduino to create an algorithm for the outfit selection based on live weather data and a continuous motor to actuate a model closet
• Won second place out of 41 participating teams after presenting twice to an array of judges from industry

FPGA POKER
Nov. 2017 to Dec. 2017

• Worked with a partner to simulate a poker game using the Xilinx Nexys 3 FPGA board, attachable 7-segment displays, and the VGA display port
• Coded in Verilog to simulate the game and pseudo-randomized the hands for the players and the community deck using LFSR

IDEA HACKS 2017: CYCOOL
Jan. 2017

• Designed and created a smart bike using Microduino MCUs in C and TI's ultrasonic range sensor
• Integrated and prioritized features for the front and back of the bike based on time constraints and practicality
• Brainstormed a concept and completed the project within 36 hours to win Microduino's Best Hack prize

Leadership and Activities

ERG SPROUTS · Lead
Aug. 2020 to Current

- 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.

PRIMARY SCHOOL · Mentor
Sept. 2020 to Current

• Mentoring a first grader at the Primary School through Zoom by practicing reading and comprehension skills, writing a creative story book, and connecting over similar interests.

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