

EXPERIENCE

Google | Incoming Software Engineer Intern – *Container Optimized OS* Jun 2020 – Sept 2020

- Developing a build-tracking service to identify all changes that occurred between two operating system builds
- Creating and deploying a webapp to allow both internal and external teams to track changes

University of California, Santa Cruz | Tutor & Reader – *Natural Language Processing* Sept 2019 – Dec 2019

- Reinforced student understanding of core Natural Language Processing concepts through hosted lab sections
- Assisted in the implementation and debugging of coding assignments using Python, SciKit Learn, and NLTK

IBM | Software Development Intern – *Security & Compliance Optimization* Jun 2019 – Sept 2019

- Worked on a physical access management tool for controlling privileges to 40+ data centers within IBM Cloud
- Integrated Active Directory into a security framework, accelerating issue detection time from 30+ days to 24 hours
- Built internal tools to automate audit workflows, saving over \$10,000 annually
- Wrote unit tests to automate tools testing using Pytest

Second Harvest Food Bank | Software Engineering Intern Mar 2019 – Jun 2019

- Created and deployed a mobile-first web app for helping users locate foodbanks and their hours of availability
- Integrated with G Suite to generate map directions and improve accessibility for both users and maintainers

EDUCATION

Bachelor of Science, Computer Science | University of California, Santa Cruz Jun 2017 – Jun 2020

3.81 GPA – High Honors in Major, University Honors

ACHIEVEMENTS

CruzHacks 2020 1st Place Google Cloud Category Winner | Amber Alert Dashcam App (Android) Jan 2020

An Android dashcam app that automatically scans nearby cars for matches with active Amber Alerts. Includes a police dashboard for tracking nearby sightings, and Notivize integration to alert police departments via email.

HackACM 2019 3rd Place Winner | UCSC Course Tracker for Alexa & Web Apr 2019

A UCSC class lookup service to track course openings via web browser and Amazon Alexa voice assistant.

HackACM 2018 Student Utility Category Winner | UCSC Welcome Website Mar 2018

A mobile website to connect incoming UCSC students with campus resources and activities.

SELECTED PROJECTS

Monitori – An Anti-Toxicity Discord Bot | Javascript, Node.js, VADER, SQLite

- Built a Discord bot to promote positive user engagement by penalizing users that express negative sentiment
- Optimized memory usage by performing sentiment analysis after detecting the end of a conversation
- Deployed on Raspberry Pi and Glitch serving over 10k users

Distributed Data Storage using Docker Containers | Python & Flask

- Built a remote storage solution that allows Docker containers to store key-value pairs as a distributed system
- Created a REST API using Flask for client communication and node additions
- Added data sharding capabilities and ensured crash tolerance through data replication & automatic resharding

Search Engine | Python, Spacy, & Natural Language Toolkit

- Designed a system that finds the answer to any question by generating an excerpt from a library of text
- Implemented natural language processing techniques such as dependency parsing and discourse modeling

SKILLS

Languages: Python, Java, Go, C, C++, Javascript, HTML, CSS, SQL, Assembly, MATLAB
Technologies: React, Node.js, Django, Flask, Pytest, NLTK, Tensorflow, NumPy, App Engine
Software & Tools: Git, Docker, Linux, JIRA, Make