

EDUCATION

Bachelor of Science, Computer Science

Jun 2017 – Jun 2020

University of California, Santa Cruz – 3.8 GPA

EXPERIENCE

University of California, Santa Cruz | Tutor & Reader – Natural Language Processing

Sept 2019 – Dec 2019

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

IBM | Software Development Intern

Jun 2019 – Sept 2019

- Worked on a physical access management tool for controlling privileges to 40+ data centers
- Added Active Directory as a source for an automated security framework, ensuring continuous compliance with security policies and accelerating issue detection time from 30+ days to a single day
- 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 | Volunteer 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

ACHIEVEMENTS

CruzHacks 2020 1st Place Google Cloud Category Winner | Java, Android, & Firebase

Jan 2020

Built an Android dashcam app that automatically scans nearby cars for matches with active Amber Alerts. Developed a police dashboard for tracking nearby sightings, and integrated with Notivize to push notifications via email.

HackACM 2019 3rd Place Winner | Python & Flask

Apr 2019

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

HackACM 2018 Student Utility Category Winner | HTML & CSS

Mar 2018

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

SELECTED PROJECTS

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

Sentiment Analysis Discord Bot | Javascript, Node.js, Python, NLTK, SciKit Learn, & SQLite

- Implemented a Discord bot designed to promote positive user engagement through a point system
- Developed Decision Tree, Naive Bayes, and SVM models to classify user sentiment

Project Release Dashboard | React, Javascript, Node.js, & Express

- Deployed a web app for monitoring public reception to project releases on social media
- Integrated with Twitter and Reddit to source data, and employed Watson NLP to derive actionable data

SKILLS

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