

## EDUCATION

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### Bachelor of Science, Computer Science

Jun 2017 – Dec 2020

University of California, Santa Cruz – 3.8 GPA

## EXPERIENCE

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### University of California, Santa Cruz | Teaching Assistant – 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, replacing manual monthly audits with continuous access monitoring
- 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 \$6,000 annually
- Created a dashboard to display live audit health and identify bottlenecks using Flask and Elasticsearch DSL
- 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 web app for helping users locate nearby available foodbanks
- Integrated with G Suite to generate map directions and improve accessibility for both users and maintainers
- Coordinated with project stakeholders to establish project specifications and timelines

## SELECTED PROJECTS

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### 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
- Developed a message versioning system to enforce causal consistency between requests

### 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 by rewarding points
- 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

## ACHIEVEMENTS

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### HackACM 2019 3<sup>rd</sup> Place Winner | Python & Flask

Apr 2019

Built a class lookup service for both web browsers and Amazon Alexa voice assistants

### HackACM 2018 Student Utility Category Winner | HTML, CSS, & Bootstrap

Mar 2018

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

## SKILLS

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