Austin Yuan

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EDUCATION

Bachelor of Science, Computer Science   *Jun 2017 – Jan 2021*
University of California, Santa Cruz – 3.78 GPA

EXPERIENCE

IBM | Software Development Intern   *Jun 2019 – Sept 2019*
- Developed tools to automate evidence collection for security audits in IBM Cloud
- Built a tool to proactively identify security violations in Active Directory, accelerating response time by 75%
- Created a script to monitor audit health and identify bottlenecks using Jira-Python and Elasticsearch DSL
- Implemented a web dashboard to display live audit health data using Flask and Bootstrap
- Accelerated project status reporting by 80% by automating reports through JIRA and email

Second Harvest Food Bank | Software Engineering Intern   *Apr 2019 – Jun 2019*
- Developed and deployed a mobile-ready webapp for matching users with nearby foodbanks using Flask
- Integrated with Google Maps to visualize food bank distance and quickly generate directions
- Integrated with Google Calendar, allowing non-technical employees to update food bank locations and times
- Coordinated with Second Harvest to establish project specifications and timelines

SELECTED PROJECTS

Project Release Dashboard | Javascript, React, Node.js, Express   *Jul 2019 – Aug 2019*
- Deployed a webapp for monitoring public reception to project releases and identifying desired changes
- Integrated with Twitter and Reddit to source data, and employed Watson NLP to derive actionable data
- Presented finished product to IBM executives for internal and market applications

Distributed Data Storage using Docker Containers | Python, Flask   *Mar 2019 – Jun 2019*
- Built a remote storage solution that allows Docker containers to store key-value pairs
- Created a REST API using Flask for client communication and message broadcasting
- Implemented a data sharding system, which allowed the system to scale linearly in capacity and throughput
- Ensured crash tolerance through data replication and automated data resharding
- Developed a message versioning system to enforce causal consistency between messages

Search Engine | Python, NLTK   *Feb 2019 – Mar 2019*
- Designed a system that answers a question by returning the most relevant excerpt from a library of text
- Implemented natural language processing techniques such as dependency parsing and word lemmatization
- Added a question classification system that applies different rulesets for answer selection
- Developed a discourse model for associating pronoun sentences with their appropriate noun

Sentiment Analysis Discord Bot | Node.js, Flask, NLTK, SciKit Learn, SQLite   *Sept 2018 – Jun 2019*
- Implemented a Discord bot designed to promote positive user engagement by rewarding points
- Trained Decision Tree, Naive Bayes, and SVM models to classify user sentiment using NLTK and SciKit Learn
- Increased classification accuracy by 60% by improving feature selection with techniques such as lemmatization

ACHIEVEMENTS

HackACM 2019 3rd 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

Languages:	Java, Python, Javascript, C, HTML, CSS, Assembly, SQL, MATLAB
Technologies:	React, Node.js, Flask, Express, Bootstrap, Swing, NLTK, Scikit Learn
Software & Tools:	Git, Docker, Postman, Elasticsearch, Kibana, Linux