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Austin Yuan

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EDUCATION

Bachelor of Science, Computer Science *June 2017 – June 2020*
University of California, Santa Cruz – 3.78 GPA

EXPERIENCE

IBM | Software Development Intern *June 2019 – September 2019*
- Developed tools to automate evidence collection for security audits against IBM Cloud
- Created a dashboard to monitor audit health using Flask and JIRA API
- Developed Elasticsearch queries to identify audit bottlenecks using Elasticsearch DSL and Kibana
- Accelerated issue response time by automating reports through email and JIRA

Second Harvest Food Bank | Software Engineering Intern *April 2019 – June 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.js, Express *July 2019 – August 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 market and internal applications

Distributed Data Storage using Docker Containers | Python & Flask *March 2019 – June 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 *February 2019 – March 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 | Javascript, Node.js, & SQLite *September 2018 – June 2019*
- Implemented a Discord bot designed to promote positive user engagement by rewarding points
- Optimized memory usage by 60% by automatically processing messages after certain conversation triggers
- Deployed on Raspberry Pi with automated crash recovery

ACHIEVEMENTS

HackACM 2019 3rd Place Winner | Python & Flask *April 2019*
Built a class lookup service for both web browsers and Amazon Alexa voice assistants

HackACM 2018 Student Utility Category Winner | HTML, CSS, & Bootstrap *March 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.js, Node.js, Flask, Express, Bootstrap, Swing
Software & Tools:	Git, Docker, Postman, Elasticsearch, Kibana, Linux