

# Austin Yuan

909-908-8832 | austinyuan2@gmail.com | linkedin.com/in/austinyuan202 | https://austinyuan.com

## EDUCATION

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### **Bachelor of Science, Computer Science**

*June 2017 – June 2020*

*University of California, Santa Cruz*

- Cumulative GPA: 3.8/4.0

## WORK EXPERIENCE

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### **ITS Intern** | Amphastar Pharmaceuticals

*August 2018 – September 2018*

- Reviewed and corrected instructional manuals after document conversion in Microsoft Word
- Digitally created visual components, such as technical diagrams and flowcharts, to visualize important concepts

### **ITS Intern** | Rainbow Optometry

*June 2015 – July 2017*

- Managed office inventory in an electronic database
- Created electronic health record templates and forms with Microsoft Word
- Updated medical documents and patient profiles using Crystal Practice Management

## SELECTED PROJECTS

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### **Distributed Key-Value Store** | Python, Flask, & Docker

*March 2018 – June 2019*

- Implemented a distributed system that allowed Docker containers to store incoming key-value pairs in a causally consistent, crash tolerant manner
- Ensured causal consistency by creating a message versioning system
- Improved storage capacity and throughput by implementing data sharding
- Developed broadcasting methods to support node additions and ensure crash tolerance

### **Natural Language Story Parser** | Python

*February 2019 – March 2019*

- Worked in a team of three students to create an application that reads a given story and answers natural language questions that users asked about the story
- Analyzed question and story sentence structure using dependency trees with Stanford CoreNLP
- Developed a discourse model for associating pronouns with the appropriate character in a story
- Implemented a system for classifying questions and isolating answers in a given text

### **Online Reviews Deep Learning Classifier** | Python

*January 2019 – February 2019*

- Utilized Naïve Bayes, Decision Tree, and SVM Classifiers to train a classifier to determine a reviewer's sentiment towards a movie or restaurant
- Created numerous features sets using tokenized sentences, LIWC features, and word embeddings
- Improved feature selection using lemmatization, POS tags, and word binning

### **Discord Sentiment Analysis Bot** | Javascript & Node.js

*September 2018 – June 2019*

- Built a configurable Discord bot designed to promote positive user engagement with others
- Implemented custom data structures for storing user statistics and caching messages
- Optimized memory usage by automatically processing messages after certain conversation triggers
- Added database importing and exporting functionality using SQLite

## ACHIEVEMENTS

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### **HackACM 2019 3<sup>rd</sup> 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

*March 2018*

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

## SKILLS

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**Languages:** Java, C, Python, Javascript, HTML/CSS, SQL

**Tools:** React.js, Git/Github, Docker, Matlab, SSH