

# Ryan Lee

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I'm an **aspiring software engineer** currently attending UC Irvine as a senior undergraduate. I've become interested in software engineering through computational linguistics research at UCI's Department of Language Science.

## Relevant Experience

### Research Assistant

*Irvine, California*  
March 2020 – Present

UC Irvine, Department of Language Science

- Used machine learning techniques to quantify complexity in natural languages with Prof. Richard Futrell
- Created language models in Python to find entropies of word sequences using n-gram models
- Wrote Python scripts to generate multi-language corpora using a web-scraper
- Developed a web-interface for an online experiment using JavaScript, HTML, and CSS

### Club Vice President

*Santa Monica, California*  
Sep 2018 – Jun 2019

Santa Monica College, Programming Club

- Taught club members basics in Python, bash, and git
- Planned trips to programming seminars and hackathons

## Projects

### Word Order Information

[https://github.com/savy1211/wordinfo\\_experiment](https://github.com/savy1211/wordinfo_experiment)

- This project uses n-gram models to calculate the word order entropy of languages such as English, Dutch, Turkish, Mandarin, and Polish.
- Trigram models were created using Python
- Project Gutenberg was scraped using Python scripts

### Jazz Solo Ratings

<https://www.jazzsoloratings.com/>

- A web app created with MongoDB, Express.js, React, and Node.js
- Implements user authentication using Firebase
- Allows users to create reviews of jazz solos

## Education

### University of California, Irvine

*Irvine, California*  
Aug 2019 – Present

BACHELORS IN LANGUAGE SCIENCE, GPA: 3.97

- Deans Honors List: Fall 2019-Present
- Relevant Courses: Linguistic Data Science, Linear Algebra, Multivariable Calculus

### Santa Monica College

*Santa Monica, California*  
Aug 2017 – June 2019

GPA: 3.50

- Deans Honors List
- Relevant Courses: Algorithms & Data Structures, Introduction to C++, Introduction to Statistics

## Skills

Python  
JavaScript  
MERN Stack  
SQL  
Bash  
Git

