

# JARROD LEONG

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## Education

University of California Irvine, Irvine, CA  
*Computer Science Candidate, Expected graduation, June 2020*

Granada Hills Charter High School, Granada Hills, CA  
*Graduation year: 2016*

## Experience

### CodeSpeak Labs

*January 2018 – Present*

- Teach elementary school children how to code in Scratch, simplified JavaScript, and Python in one-hour classes with class sizes ranging 5-20 kids by visiting different schools throughout the week.
- Requires planning and organizing lesson plans tailored to each individual school.

### Created a website to sell movies

*January 2020 – March 2020*

- Utilized MySQL to host and store several databases about movie information including titles, actors, genres, and directors. Utilized the PayPal API to create orders to bill customers. Used Java to implement the backend. Used Html, JavaScript, CSS, and React for the front end.

### Created a chat bot

*January 2020 - March 2020*

- Utilized the deep learning model, Transformer, to create and train a chat bot model capable of holding small talk conversations with a user.
- Trained on over 100,000 utterances from multiple corpuses over 15 hours of training time.

### Developed a web crawler

*May 2019 – June 2019*

- Created a web crawler to scan and parse almost 50,000 sites across the UCI domain.
- Created a simple search engine implementing an inverted index and utilizing cosine similarity to rank them.

### Created a multiplayer Texas Holdem Game

*July 2017 – August 2017*

- Utilized socket programming to allow the game to operate via a LAN connection.
- Able to host multiple users by having them connect to a central server to play the game.

## Skills

- Proficiency of various programming languages including Python, C, C++ and Java.
- Experience with embedded systems using C to implement them on an Atmega 32 embedded device.
- Understanding of different machine learning models and how to implement them via Pytorch in Python.
- Knowledge of Unix and Windows OS.

## Extracurriculars/Leadership

### Small group leader

*June 2018 – June 2019*

- Responsible of co-leading a small group for the club, AACF, involving weekly meetings as well as lesson planning with the other co-leader.

### Baja Mission Trips

*Summers of 2014 - 2016*

- Worked with a team to build small houses using wood planks and manual tools.
- Each year delegated as a leader to lead kids in group activities.