

## Education \_

### **University of California, Los Angeles**

**Expected Graduation in June 2022** 

Bachelor of Science in Computer Science

Major GPA: 3.9

Courses

Data Structures, Algorithms, Operating Systems, Linear Algebra, Discrete Math, Software Construction Laboratory

# Experience \_\_\_\_\_

Seattle, WA **Amazon** 

Software Development Engineer Intern

June 2020 - PRESENT

- Improved scalability and performance for a console's infrastructure by transferring it to serverless architecture
- · Built new pipeline for automated, progressive deployments of certificate manager service with automatic rollbacks
- Implemented server logs and latency metrics using AWS CloudWatch

### **Center for Vision, Cognition, Learning, and Autonomy**

Los Angeles, CA

Research Assistant April 2020 - PRESENT

- · Researching deep learning under Professor Song-Chun Zhu for path planning and trajectory prediction in self-driving vehicles
- · Developed LSTM neural network with social pooling to determine possible trajectories of human movement in dense crowds
- · Created tool to preprocess raw data into loadable binary files, improving data pipeline performance

**Archanics** El Segundo, CA

Software Engineer Intern

June 2019 - August 2019

April 2019 - June 2020

- Developed Android GIS/GPS map application with real-time traffic analysis and 3-D geographic layers
- Programmed mapping functionalities to generate routes, invite people to events, and display multiple datasets

**Daily Bruin** Los Angeles, CA

Built database infrastructure and optimized database querying in API endpoints for multiple projects

- · Constructed customizable components for the Daily Bruin Lux library, resulting in faster website development
- Increased number of average users by 10% by improving mobile user experience in new interactive flat pages

# Projects \_\_\_\_\_

Lead Software Developer

#### Simultaneous Location and Mapping (SLAM) Tool

- · Developed tool to generate a three-dimensional map of an environment by analyzing any given video
- · Performed video and image processing using OpenCV to extract features from images and render their points in 3-D space

#### **Tongits**

- Implemented Android application of a Filipino card game with Al opponents, music, and point scoring
- Gained over 12,000 downloads on Google Play Store

### **Drug Decider**

- Designed database schema and created REST API endpoints to connect the user interface with the machine learning model and database
- Fixed bugs in machine learning model for predicting a patient's treatment response to anti-psychotics
- Used in production by the UCLA David Geffen School of Medicine at drugdecider.org

# Skills \_\_\_\_\_

Languages Python, Java, C++, C, JavaScript, TypeScript, Go, HTML, CSS

Frameworks + Tools PyTorch, React, Django, Node, Git, Docker, OpenCV, MongoDB, mySQL, PostgreSQL, Numpy

Technologies Machine Learning, Deep Learning, Android, Computer Vision, SLAM, SQL, noSQL, Web Development