

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 _____

Amazon Seattle, WA

SOFTWARE DEVELOPMENT ENGINEER INTERN

June 2020 - PRESENT

Contributing in AWS Cryptography on the ACM PrivateCA team in Summer 2020

Center for Vision, Cognition, Learning, and Autonomy

Los Angeles, CA April 2020 - PRESENT

April 2019 - June 2020

RESEARCH ASSISTANT

- Researching deep learning under Professor Song-Chun Zhu for path planning and trajectory prediction in self-driving vehicles
- Implemented LSTM neural network with social pooling to determine possible trajectories of human movement in dense crowds
- Improved performance of data feed pipelines for neural networks by creating a tool to preprocess raw data into loadable binary files, preventing redundant calculations

Archanics El Segundo, CA

SOFTWARE ENGINEER INTERN

June 2019 - August 2019

- Developed Android GIS/GPS map application with real-time traffic analysis and 3-D geographical 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

- $\bullet \ \ \, \text{Developed tool to generate a three-dimensional map of an environment by analyzing any given video}$
- Implemented an algorithm to extract features and camera pose from images to render 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