

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

- · Designed scalable architecture to replace deprecated infrastructure for the AWS Private Certificate Manager consumer service
- · Built new pipeline to deploy certificate manager service infrastructure to improve performance and security

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
- · 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

Lead Software Developer April 2019 - June 2020

- · 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 _____

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 AI 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