Henry Trinh

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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

Tesla — Palo Alto, CA

Software Engineer Intern — September 2020 - PRESENT

- Will contribute in C++ Infotainment UI team

Amazon — Seattle, WA

Software Development Engineer Intern — June 2020 - September 2020

- Improved scalability and performance for console infrastructure by migrating 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

- 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

Lead Software Developer — April 2019 - June 2020

- Created and deployed 10+ interactive web applications with 100k+ views with a team of 10 developers
- Built database infrastructure and wrote APIs for multiple projects
- Constructed customizable components for the Daily Bruin Lux library to improve development speed

Projects

Tongits

- Implemented Android application of a Filipino card game with AI opponents, music, and point scoring
- Gained over **13,000 downloads on Google Play Store**

Drug Decider

- Designed database schema and REST APIs to connect the user interface with the machine learning model and database
- Used in production by the UCLA David Geffen School of Medicine at **drugdecider.org** to predict a patient's response to anti-psychotics

Skills

Languages	Python, Java, C++, C, JavaScript, TypeScript, SQL, HTML, CSS
Frameworks + Tools	PyTorch, React, Django, Node, Git, Docker, OpenCV, MongoDB, mySQL, PostgreSQL, Numpy
Technologies	Machine Learning, Android, Computer Vision, SLAM, Databases, Web Development