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

Experience

Nuro   Mountain View, CA

Software Engineer Intern   Spring 2021

- Machine Learning Infrastructure

Tesla   Palo Alto, CA

Software Engineer Intern   September 2020 - PRESENT

- Developed new search feature for locating amenities surrounding a user-selected Supercharger
- Implementing navigation feature for drivers to create and edit waypoints with battery management in a trip

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

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

tiny.cc/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