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

Amazon   Seattle, WA
SOFTWARE DEVELOPMENT ENGINEER INTERN   June 2020 - PRESENT

- Contributing in AWS Cryptography in Summer 2020

Center for Vision, Cognition, Learning, and Autonomy   Los Angeles, CA
RESEARCH ASSISTANT   April 2020 - PRESENT

- Researching LSTM neural networks with social pooling for path planning and trajectory prediction

Archanics   El Segundo, CA
SOFTWARE ENGINEER INTERN   June 2019 - August 2020

- 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 - PRESENT

- 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 a 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 AI opponents, music, and point scoring
- **Over 12,000 downloads** on the 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**

Pinstagrad

- Built data pipeline to connect the database with cloud photo storage to maximize retrieval efficiency for displaying multiple photos for a graduation photo sharing platform
- Implemented user photo submission form with photo preview and tagging features

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, Computer Vision, SLAM, Android, SQL, noSQL, Web Development