Henry Trinh

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EDUCATION

University of California, Los Angeles　　　　**Expected Graduation in June 2022**
Bachelor's of Science, Computer Science　　　　Major GPA: 3.9

Courses　　Data Structures, Algorithms, Operating Systems, Linear Algebra, Discrete Math

EXPERIENCE

Amazon　　　　**June 2020 - September 2020**
`Software Development Engineer Intern`　　　　Seattle, WA

· Contributing at Amazon Web Services (AWS) during Summer 2020

UCLA Center for Vision, Cognition, Learning, and Autonomy　　　　**April 2020 - Present**
`Research Assistant`　　　　Los Angeles, CA

· Creating a LSTM neural network for path planning and trajectory prediction

Archanics　　　　**June 2019 - August 2019**
`Software Engineering Intern - Maps`　　　　El Segundo, CA

· 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　　　　**April 2019 - Present**
`Lead Software Developer`　　　　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

PERSONAL 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

DrugDecider — UCLA David Geffen School of Medicine

· Fixed bugs in machine learning model for predicting a patient's treatment response to anti-psychotics
· Designed database schema and created REST API endpoints to connect the user interface with the machine learning model and database.

Pinstagrad — UCLA Creative Labs, Full Stack

· 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

learnPIC

· Developed Android mobile application to analyze and classify objects in photos with machine learning
· Built pipeline from output of analyzed photo to Google Translate API to translate associated English words to any given language in order to boost language learning capabilities

— More projects at `github.com/thenry3` —

SKILLS

Languages　　Python, Java, C++, C, Go, HTML, CSS, JavaScript, TypeScript
Frameworks + Tools　　PyTorch, React.js, Django, Node.js, Git, Docker, OpenCV, Numpy
Technologies　　Machine Learning, Computer Vision, SLAM, MongoDB, mySQL, PostgreSQL