

Long Tran

<https://ltran.co>
(310) 408 - 2761
ltranco8@gmail.com

Swift Objective-C Python Django Flask TypeScript JavaScript Angular HTML CSS Java After Effects Tableau GIMP Prototyping UI design



07.2018
Present

Software Engineer III | Apple Inc. - Apple Watch EE / Health

- responsible for architecting and implementing medium-scale web & iOS solutions for Human Factors R&D
- specialize in 3D visualization and data collection software for anthropometric R&D
- (continue responsibilities from previous role)



04.2016
07.2018

Software Engineer II | Apple Inc. - Wireless Design Special Project Group

- designed and implemented full-stack solutions for Human Factors R&D
- specialized in web development with Django, Angular, and PostgreSQL
- led iOS development and UI/UX efforts within immediate SW team
- assisted with prototyping proof of concepts for exploratory initiatives
- owner and maintainer of 15+ iOS, 4+ web applications and 4 homebrew Swift frameworks



10.2015
12.2015

Software Engineering Intern | Amazon.com, Inc. - Payment Platform

- implemented various features for a Ruby on Rails app that tracked projects ownership in the Payment organization



06.2015
09.2015

Software Engineering Intern | Apple Inc. - iPhone Systems QA

- designed and automated a UI test suite for HomeKit accessories in integration with iOS 9 using JavaScript
- automated a hardware test suite that stressed the SoC, validating Siri and HomeKit features
- implemented a web interface with Flask and jQuery for a bug-tracking tool, reducing data-retrieval to just 2 clicks



10.2014
06.2015

Webmaster Assistant & Research Assistant | UC San Diego Supercomputer Center

- implemented a JavaScript wrapper for a jQuery plugin called DataTable, speeding up integration by 40%
- implemented database & content management tools in Python, reducing 14 hours of webmaster's workload/week
- performed research on automating alias resolution by studying hostnames from 4000+ domains



06.2014
10.2014

Software Engineering Intern | NASA Jet Propulsion Laboratory - Flight Software Core

- implemented a Python autocoder, saving on average 20 hours of C programming per future flight project
- wrote tool to translate messages from Mars rover Curiosity to readable form, simplifying debugging by 67%
- used JavaScript to create an internal website that organized 4 years worth of development documentation



01.2013
01.2014

Software Test Engineering Intern | Broadcom Corporation - Bluetooth Technology Software

- analyzed in-house Bluetooth drivers testing efficiency; created extensive test plans for builds
- identified numerous issues in Android software used in electronics from Samsung, BMW, Porsche, Chrysler
- automated Near Field Communication (NFC) tests with C#, saving on average 4 hours of labor/week



10.2013
06.2015

Sr. Marketing Student Partner | Microsoft Corporation

- educated students on Windows Phone development in C# and game development using Construct2
- globally recognized as the top 1% Marketing Student Partner by Microsoft



09.2013
03.2016

Computer Science Tutor | UC San Diego - Computer Science & Engineering Department

- helped 600+ students debug and understand Java programs, improving their object-oriented fundamentals
- wrote and maintained scripts to randomize seating charts to stimulate in-class discussion
- helped 200+ students with proof methodology & number theory concepts



09.2012
03.2016

B.S. Computer Science | University of California, San Diego

- Chancellor's Scholar with Highest Distinction
- Business minor

Sample Side Projects

- Dine: led 10 developers to implement a voted-1st place iOS application; consistently voted 'Most Valuable Member'
- PyroPad: a collaborative code editor with built-in execution, supporting 7 languages, averaging 30 users/week
- Blink: a published Chrome extension that allows users to download all web links by drawing a region on the browser

09.2012
03.2016

More details at
<https://ltran.co>

Selected Hackathons

- CalHacks: awarded top 10 hacks for an iOS app that used BLE to send messages through a mesh network
- Startup Weekend San Diego: awarded 1st place for the best business idea and model
- Qualcomm's Entrepreneurial Challenge: awarded 2nd place for the most marketable minimum, viable iOS application