

LONG TRAN

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Education

- University of California, San Diego (**Chancellor's Scholar** and **Provost Honors**) Overall GPA: 3.50
- B.S. Computer Science**, Business Minor in **March 2016** Major GPA: 3.82

Industry Experience

- Software Engineer Intern - APPLE INC.** Jul 2015 - Sep 2015
 - designs and **automates** a UI test suite for **HomeKit accessories** in integration in iOS 9 using **JavaScript**
 - automates a hardware test suite that stresses the SoC, discovering numerous flaws in **Siri** and HomeKit features
 - implements a web interface with **Flask** and **jQuery** for a bug-tracking tool, reducing data-retrieval to just **2 clicks**
- Webmaster Assistant & Researcher - SAN DIEGO SUPERCOMPUTER CENTER** Oct 2014 - Jun 2015
 - 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
- Flight Software Engineer Intern - NASA JET PROPULSION LABORATORY** Jun 2014 - Oct 2014
 - 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
- Software Test Engineer Intern - BROADCOM CORPORATION** Jan 2013 - Jan 2014
 - analyzed in-house **Bluetooth drivers** testing efficiency; created **extensive test plans** for builds
 - prevented numerous issues** in Android software used for Samsung products, BMW, Porsche, Chrysler
 - automated Near Field Communication (NFC) tests with **C#**, saving on average **4 hours** of labor/week
- Computer Science Tutor - UCSD COMPUTER SCIENCE DEPARTMENT** Sep 2013 - Jun 2014
 - helped 600+ students **debug** and understand **Java** programs, improving their object-oriented fundamentals
 - maintained and executed UNIX scripts to randomize seating charts to **simulate in-class discussion**
 - helped 200+ students with proof methodology & number theory concepts, improving exam score by **12%**
- Senior Marketing Student Partner - MICROSOFT CORPORATION** Sep 2013 - Jun 2015
 - used intelligent marketing strategies to promote Windows 8, Azure, OneDrive
 - educated students about Windows Phone development in **C#** and game development using Construct2
 - globally recognized as the **top 1%** Marketing Student Partner by Microsoft

Sample School Projects

- Languages: Java, Python, C, C++, C#, Swift/Objective-C, JavaScript, PHP, Ocaml, HTML/CSS**
- Dine:** led 10 developers to implement a voted-**1st Place** iOS application; consistently voted **'Most Valuable Member'** and implemented a virtual waitlist feature using **iBeacon** technology and Venmo integration using **AppLink**
- BoggleBot:** implemented a bot using ternary trie in **C** to search through a 500k-word dictionary in under **0.3s**
- Huffman:** implemented a program that used **Huffman Coding algorithm** to compress files by **60%+** in **C++**

Sample Side Projects

- PyroPad:** a collaborative code editor with built-in execution, supporting 7 languages, averaging **30 users/week**
- Blink:** a published Google Chrome extension that allows users to download all web links by drawing a region on browser
- Synch:** a web application that allows users to watch YouTube videos in-sync
- GitHub Data Analytics:** used **SQL** to find an **38%** growth in popularity of HackerNews-featured GitHub repos
- Scraping MSN Money:** used **Python & Selenium** to scrape stock data, yielding **\$7,000+** in a virtual stock market
- lvtran.com:** a responsive, mobile-friendly site with HTML/CSS and JavaScript, averaging **75 visits/week**

Hackathons and Computing Competitions

- Cal Hacks: 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 that helped shoppers take advantage of crowdsourced coupons
- UCSD Beginner Programming Competition: placed **11th** in a 200+ participants programming competition