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