

# LONG TRAN

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## Education

- University of California, San Diego (**Chancellor's Scholar**)
- B.S. Computer Science**, Business Minor in 2016

Overall GPA: 3.65 (**Provost Honors**)  
Major GPA: 3.82

## Industry Experience

- NASA's Jet Propulsion Laboratory - Flight Software Engineer Intern** Jun.2014 - Oct.2014
  - helped design and implement tools to expedite software (written in C) upgrade for Mars rover **Curiosity**
  - implemented a **Python** autocoder, saving on average **20 hours** of **C programming** per future flight project
  - wrote tool to translate messages from spacecrafts to readable form, **significantly simplifying** debugging by **65%**
  - used JavaScript to create an internal website that organized **4 years** worth of development documentation
- UCSD's Computer Science & Engineering Department - Tutor** Sep.2013 - Jun.2014
  - tutored for "Introduction to Java" and "Discrete Mathematics"
  - 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 & discrete mathematical structures, improving exam score by **12%**
- Broadcom Corporation - Software Test Engineer Intern** Jan.2013 - Jan.2014
  - verified in-house **Bluetooth drivers** used in Windows 8 and OS X, Lion
  - analyzed testing efficiency, created **extensive test plans** for driver builds, submitted bug logs to Microsoft
  - prevented numerous issues** prior to deployment of Android software used in Samsung products, BMW, Porsches
  - automated Near Field Communication (NFC) tests with **C#**, saving on average **4 hours** of labor/week
- Microsoft Corporation - Senior Marketing Student Partner** Sep.2013 - Present
  - uses intelligent marketing strategies to promote Windows 8, Azure, OneDrive
  - educates students about Windows Phone development in **C#** and game development using Construct2
  - globally recognized as **top 1%** Marketing Student Partner by Microsoft
- HiDev Mobile - Android Developer** Oct.2012 - Jan.2013
  - prototyped an **Android application** that tracked UC San Diego students' dining credits & alerted low budget
  - took **Project Manager** role in a team of 3 student developers to ensure on-time project delivery date

## Related Course Works

- Languages overview: Java, C, Python, C++, C#, Objective-C, PHP, HTML/CSS**
- Software Engineering (iOS Application)**
  - led 10 developers to implement a voted-**1st Place** application, competing with 190 other student developers
  - implemented a virtual waitlist feature using **iBeacon** technology and Venmo integration using **AppLink**
  - took **Project Manager** role; consistently voted '**Most Valuable Member**' by teammates in all peer reviews
- Advanced Data Structures (C & C++)**
  - implemented a search algorithm using ternary trie in **C** to search through a 500k-word dictionary in under **0.3s**
  - implemented a program that used **Huffman Coding algorithm** to compress files by **60%+** in **C++**

## Sample Side Projects

- Platelist**: a ready-to-publish, iOS 8 app that allows users to create lists of favorite restaurants to share with friends
- GitHub Data Analytics**: used **SQL** to find an **38%** growth in popularity of HackerNews-featured GitHub repos
- Scraping MSNMoney**: used Python and Selenium to scrape stock data, yielding **\$7,000+** in a virtual stock market
- lvtran.com**: designed a dynamic, user-friendly site with HTML/CSS and JavaScript, averaging **35 visits/week**

## UC San Diego Academic Extracurriculars

- Cal Hacks: awarded **top 10** hacks for an iOS app that used BLE to send messages through a mesh network
- Tohoku University: participated in a **research program** that introduced emerging technologies like spintronics, computer vision, robotics in **Sendai, Japan** (Jul.2013)
- Startup Weekend: awarded **1st place** for the **best business idea and model**, which were backed with solid customer validation and most current marketing technologies
- Qualcomm's Entrepreneurial Challenge: award **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