LONG TRAN

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Education

- University of California, San Diego (**Chancellor's Scholar**)   Overall GPA: 3.65 **(Provost Honors)**
- **B.S. Computer Science**, Business Minor in 2016   **Major GPA**: **3.82**

Industry Experience

- **NASA's Jet Propulsion Laboratory - Software Engineer Intern**   **Jun.2014 - Sep.2014**
  - helps **design** and implement tools and software to upgrade a software suite for Mars rover *Curiosity*
  - implements a robust, dynamic **Python** autocoder, **saving tens of hours** of hand coding per future project
  - uses JavaScript to create an internal website that organizes **a year** worth of development documentation

- **UCSD's Computer Science & Engineering Department - Tutor**   **Sep.2013 - Present**
  - tutors for "Introduction to Java" and "Discrete Mathematics"
  - helps 600+ students **debug** and understand **Java** programs, improving their object-oriented fundamentals
  - maintains and executes UNIX scripts to randomize seating charts to **simulate in-class discussion**
  - helped 200+ students with proof methodology & discrete mathematical structures

- **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 software deployment
  - tested Android software used in SamSung Gear and Bluetooth-enabled BMW, Porsche car kits
  - automated Near Field Communication (NFC) tests with **C#**, saving on average **4 hours** of labor/week

- **Microsoft Corporation – Microsoft Student Partner**   **Sep.2013 - Jun.2014**
  - uses intelligent & **effective marketing strategies** to promote Windows 8, Axure, and Xbox One features
  - launches Windows app development campaigns, educates students on Windows game engine Construct2

- **HiDev Mobile - Content 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

Course Works Highlights and Personal Projects

- **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
  - helped implement new features using **iBeacon** and **AppLinks** technology
  - took **Project Manager** role to strategically allocate resources among project aspects
  - consistently voted **'Most Valuable Member'** by teammates in all peer reviews
- **Advanced Data Structures (C++)**
  - implemented an efficient Boggle Board™ solver using appropriate data structure and search algorithm
  - implemented a program that used **Huffman Coding algorithm** to compress files in **C++**
  - strong understanding of common **data structures** and their **time complexity** (Big O notation)
- **Computer Organization and System Programming (C and SPARC Assembly)**
  - created a program that mirrored **ls** Linux command
  - introduced to and practiced multi-threading techniques
- **Introduction to Java:** Used **Java** and **object-oriented design** approach and practice to create:
  - a program that replaced green-screen type of pictures with desired background
  - a basic tic-tac-toe game that could be played on command prompt
  - a basic compiler's syntax checker that reported syntaxtical errors

UC San Diego Academic Extracurriculars

- Tohoku University: participated in a **research program** that introduced emerging technologies like spintronics, computer visions, 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 crowdsourced coupons and helped shoppers take advantage of coupons
- UCSD Beginner Programming Competition: placed **11th** in a 200+ participants programming competition