

## Brandon Tai

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### OBJECTIVE

To gain employment where I can apply and grow my skills in computer programming and game design.

### EDUCATION

**University of California, Los Angeles, School of Engineering and Applied Science** Class of 2019

- ♪ Computer Science Major: Algorithms, Data Structures, Computer Architecture
- ♪ Other Coursework: Multivariable Calculus, Linear Algebra, Physics

**Windward High School, Los Angeles, CA | GPA 4.28** Class of 2015

#### Other Learning Experiences

- ♪ Johns Hopkins Center for Talented Youth (CTY) 2007 - 2015
- ♪ Summer Classes: C++, Java, Python, Maya, Unity, Zbrush, Unreal Editor 2006 - 2014
- ♪ UCLA Design|Media Arts Summer Institute: Game Design 2011

### SPECIAL SKILLS & INTERESTS

Designing video games and programming in C++, Java, Swift, Python, MatLab

Arranging Chair, Production/Sound Engineer, Bass Singer in UCLA Resonance *a cappella* group

Teaching and competing in Table Tennis – nationally ranked

Basic reading, writing, and speaking in French and Mandarin

### EXPERIENCE

**Researcher** | Machine Learning Laboratory, UCLA Summer 2016

- ♪ Studied deep learning using Convolutional and Recurrent Neural Networks (including LSTMs) with Theano and TensorFlow software packages on tasks including classification (MNIST) and sequence modeling (VQA). This involved reproducing published results and understanding the impact of different implementation choices on performance.

**Programming and Robotics Instructor** | iD Tech Camps, UCLA and LMU Summer 2015

**Software Engineering Intern** | Draper Laboratory, Cambridge, MA Summer 2014

- ♪ Dream Chaser Project: a reusable space-plane designed to replace NASA's Space Shuttle to transport crew and cargo to the International Space Station
  - ♪ Developed Flight Software using MatLab and Simulink
  - ♪ Programmed fundamental software tool used to project landing geometries based on initial and final vehicle states

**Founder, Instructor, Captain** | Windward High School, Los Angeles, CA 2009 - 2015

- ♪ Multiple "Skills and Teamwork" Classes and Competition Team for *League of Legends* and *StarCraft* Video Games

**Math and Physics Tutor** | Windward High School, Los Angeles, CA 2014 - 2015

**Assistant Coach** | All Olympia Gymnastics Center, Los Angeles, CA 2010 - 2013

**Assistant Instructor** | Westside Table Tennis Center, Los Angeles, CA 2008 - 2013

### HONORS AND AWARDS

The Windward School Senior Class Mathematics Award of Excellence 2015

Windward School Dean's List 2009 - 2015

Cum Laude Society, National Honor Society 2014

Junior Book Award | RPI Medal Award and Scholarship 2014

- ♪ Award for outstanding academic achievement in the study of math and science

AP Scholar with Honor, National Merit Commended Scholar 2014

American Mathematics Contest | 1<sup>st</sup> Place at Windward School 2011 - 2014