

Brian Zhang

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Skills Education

Programming Languages

Java Strong

C/C++

Python Intermediate HTML/CSS

Javascript

Assembly Fairly Used

Netlogo Scheme

Technologies Used

Flask, jQuery, Firebase, Unix/ Linux

Knowledge of data structures and search/sort algorithms, regular expressions; Intermediate understanding of higher-level and theoretical CS (machine learning, genetic algorithms, computer vision)

Academic

Knowledge of classical mechanics & applications through engineering (Robotics, bridge rectifiers, pulse-width modulation)

Past Coursework

Intro to EE
Intro to Programming
Data Structures/Algorithms
Discrete Math
Linear Algebra/Multi/Diff Eq.

Current Coursework:

Intro to Java/Networks/ Threads Professional C++ Intro to Games Programming Discrete Math II Computer Architecture **University of Southern California**

Computer Science
Stony Brook University
Electrical Engineering
Stuyvesant High School

Regents Honors Diploma

Projects

Portal Immersion | Hardware + Software

Used Kinect, Oculus Aift, and Myo to create a hyper-realistic virtual gaming experience. I primarily worked on the Kinect for movement and gesture control.

Myo: Fighter of the Streets | Hardware + Software

Calhacks 2014. Created a control system for Street Fighter II using Myo armband from Thalmic Labs in a team of 3. Game performs actions based on motion and gesture inputs from the Myo. Uses the Myo API (C++) and Objective-C.

Loudspkr | Software

Created at HackNY 2014 in 24 hours in a team of 4. Allows the user to join a regional chatroom based on nearest foursquare venue. Technologies used: Foursquare API, Python, Flask, HTML, jQuery, Javascript, Firebase.

Facial Recognition Sentry Gun | Hardware + Software

Modded a standard automatic nerf gun with 3 other students at HackCooper 2014. Uses OpenCV and an arduino-controlled motor for detecting faces and aligning the gun's camera.

Web Explorer | Software

High school software development class group final project. Created a physics engine using Javascript & jQuery to transform any webpage into a 2D platforming game.

Presented at Google HQ in NYC in June 2013. Presented at NYTM in July 2013.

Experience

MixSpot | Software Developer

Performed full-stack development to create a mobile-optimized

news website (for MixSpot) from scratch.

Viterbi Mobile Web Developer | Programmer

Headed (solo) mini-projects on various components of the Viterbi website, from integrating Instagram/Twitter/RSS feeds to optimizing the mobile website.

MIT Zero Robotics | Programmer

Wrote simulation software the the MIT "Spheres" that were ultimately simulated on the International Space Station.

Math Team | Competitor

Participated in various math competitions/contests. (AMC, AIME, Mandelbrot, NYCIML, NYSML, etc).

FIRST Robotics | Engineer

Built robots from scratch for the FTC Robotics team (both programming/constructing the robot) to compete in the FIRST Robotics Challenge. The overall team competed nationally for all 4 years from 2009-2013.

Stony Brook Computing Society | Member

Math Club | Member

University of Southern California September 2014 – December 2014

eptember 2014 – December 2014

Stuyvesant High School

July 2015 - August 2015

Los Angeles, CA

Stony Brook, NY

November 2014

October 2014

April 2014

February 2014

June 2013

New York

2014-Current

2013 - 2014

2009 - 2013

New York, NY

September 2011 – December 2011

Stuyvesant High School

September 2009 – June 2013

Stuyvesant High School October 2009 – June 2013

October 2003 Guile 2010

Stony Brook University October 2013 – May 2014

Stony Brook University August 2013 – May 2014