



Brian Zhang

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Skills

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

Education

University of Southern California

Computer Science

Stony Brook University

Electrical Engineering

Stuyvesant High School

Regents Honors Diploma

Los Angeles, CA

2014–Current

Stony Brook, NY

2013 – 2014

New York, NY

2009 – 2013

Projects

Portal Immersion | Hardware + Software November 2014

Used Kinect, Oculus Rift, 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 October 2014

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 April 2014

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 February 2014

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 June 2013

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

New York

July 2015 – August 2015

University of Southern California

September 2014 – December 2014

Stuyvesant High School

September 2011 – December 2011

Stuyvesant High School

September 2009 – June 2013

Stuyvesant High School

October 2009 – June 2013

Stony Brook University

October 2013 – May 2014

Stony Brook University

August 2013 – May 2014