Alan L. Liu

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Education

Yale University, New Haven, Connecticut
Bachelor of Science in Math and Computer Science, May 2018 (Expected)
Current Cumulative GPA: 3.67
Coursework Includes: Systems Programming & Computer Organization, Discrete Math, Linear Algebra, Data Structures and Programming Techniques, Multivariable Calculus

Hillsborough High School, Hillsborough, New Jersey
Diploma, June 2014, Unweighted/Weighted GPA: 96/106.1, Class rank: #3/597

Experience

Student Developer, *Yale Student Technology Collaborative*   January 2015 - Present
Reservations Team- Ruby on Rails project for reserving media equipment from Yale's libraries
Used by Yale's undergraduate and graduate students, in process of expanding to other schools
  Created new features including forms allowing students to edit their existing reservations, redesigned emails to enable markdown syntax

Head Web Developer, *Anon Market*   April 2015 – Present
A Django based online marketplace to buy and sell digital files anonymously
  Implemented currency localization allowing Anon to appeal to a global audience, integrated various currency exchange rates, engineered file deletion and data preservation process

Light Fellow, *Harvard Beijing Academy*   Summer 2015
Chinese language and culture study program in Beijing, China
  Developed greater fluency in Chinese (Mandarin), Researched Chinese customs and culture

Extracurricular Activities

Software Developer, *Various Hackathons*   October 2014 - Present
HackPrinceton Spring 2015- Enabled an Arduino to be programmed with 8 bit signals from a phone
PennApps Winter 2015- Developed a virtual real-time music composer integrating Oculus rift and Myo
HackPrinceton Fall 2014- Engineered a Google Glass app for real-time speech translation and display
YHack 2014 -Integrated a meteor/mongoDB backend in a personal avatar app to promote good habits

Robotics Activities
Yale Aerospace (Sept. 2014-Present) - Wrote autonomous routine for rover launched in a rocket
Bulldog Bots (Sept. 2014- Present) - Programmed autonomous Arduino bot to navigate unknown maze
FIRST Robotics Team 75 (Sept. 2010- June 2014) – Led controls department/organized robot demos

MathCounts Tutor (Oct. 2014-Feb.2015) - taught math to local New Haven middle school students

Awards

Hackathons: PennApps Top 10, HackPrinceton Spring 2nd Place Hardware, HackPrinceton Fall Best iOS App, YHack Best Use of MongoDB API
Mathematics: AIME(American Invitational Math Exam) Qualifier 2012-2013, ARML (American Regional Mathematics League) Qualifier 2012-2014
Language: Yale Light Fellowship – Study Abroad in China (Summer 2015)

Skills

Programming Languages: C(experienced), Python (experienced), Django (experienced), Java(comfortable), Ruby/Rails(comfortable), HTML/CSS (comfortable)
Foreign Languages: English(fluent), Chinese(fluent), Spanish (comfortable)