Brandon Lin

Software Developer

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Programming

- Proficient in:
 - Python
 - Java
 - LATEX
 - HTML/CSS
 - JavaScript
 - Flask
 - Bash
- *Knowledge of*:
 - MySQL
 - NoSQL
 - Node.js
 - Django
 - C/C++
 - Haskell
 - Processing
 - MATLAB
 - Jinja2
 - Jekvll

Applications

- Git
- GIMP
- Cyberlink PowerDirector

Operating Systems

- Ubuntu Linux
- Windows

Interests

- Machine Learning
- o Rubik's Cube
- Music
- Videography

Education

2016-present University of Pennsylvania, School of Engineering & Applied Sciences

Candidate for B.S.E. in Computer & Information Science in May 2020 – GPA: 4.00/4.00

Minors: Statistics (The Wharton School), Mathematics (School of Arts & Sciences)

2012–2016 Stuyvesant High School, New York, NY

Advanced NYS Regents Diploma – GPA: 4.00/4.00

Professional Experience

2016-present Penn Labs, Software Developer

- Managed deployment and fixed Django bugs for Penn Course Review, Penn's online platform for course/professor ratings used by nearly all undergraduates
- Developed new features in Python for the Penn Mobile app's API

2016–present Art of Problem Solving, Teaching Assistant

- Assisting instructors by grading student solutions to various olympiad math classes
- Served as an in-class assistant for Introduction to Python, answering student questions

Leadership & Volunteer Experience

2016–present Penn Cubing, President

Expanded the speedcubing community at Penn through teaching events and meetings

2015–2016 Stuyvesant HS Computer Science Dojo, Leader/Sensei

o Tutored students of Introduction to Computer Science and AP Computer Science in daily after-school sessions, nearly doubling CS involvement at Stuyvesant HS

2014–2016 Stuyvesant HS Speed Cubed, President

 Organized citywide speedcubing competitions that saw a 50% increase in competitor count

2011-present World Cube Association (WCA), Volunteer & Competition Organizer

- Volunteered at over 20 regional competitions, assisting in numerous tasks such as judging, scrambling, and data entry
- Organized first speedcubing competition at Penn since 2009, attracting over 100 competitors worldwide

Projects

2017 MultiCuber

o (Node.js, MongoDB) Used socket.io to make multiplayer chat rooms for speedcubers to compete: https://github.com/esqu1/MultiCuber

2017 WCA Rankings Sorter

o (Flask, JavaScript) Developed an API that obtains data from the WCA, providing a better visualization of rankings: https://github.com/esqu1/wca-ranking-sorter

2017 **PennCourseLMK**, Penn Labs

o (Node.js, MongoDB) Created an easy-to-use searchbar for Penn's courses, and implemented a email bot within Node.js

2014 VirtCube

• (Processing) Implemented mechanics and a timer for a virtual Rubik's Cube: http://github.com/esqu1/ProjectAPCS

Awards and Achievements

- Guinness World Record Holder for Square-1 Average (Rubik's Cube)
- 6-year YouTube Creator w/ over 3000 subscribers
- USA Computing Olympiad Gold Division Qualifier
- American Invitational Math Examination (AIME) Qualifier (2013-2016)
- o 6-time Orchestral Musician at Lincoln Center Performances