Brandon Lin

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Philadelphia, PA

New York, NY

May 2020

4.00/4.00

June 2016

4.00/4.00

Programming

- o Proficient in:
 - Python
 - Java
 - LaTeX
 - HTML/CSS
 - Bash
- o Knowledge of:
 - JavaScript
 - SQL
 - Go
 - C/C++
 - MATLAB
 - OCaml
 - Scheme

Frameworks

- o Flask
- o Node
- MongoDB
- o Cassandra
- Django
- Processing
- o Jinja
- o Jekyll

Applications

- o Git
- o GIMP
- o Cyberlink PowerDirector

Operating Systems

- o Ubuntu Linux
- o Windows

Interests

- o ML/AI
- o Rubik's Cube
- o Music
- o Origami

Education

University of Pennsylvania — School of Engineering & Applied Science

B.S. Engineering: Computer Science and Mathematics | Minor: Statistics [Wharton]

 <u>Coursework</u>: Introduction to Computer Architecture, Discrete Math, Probability, Abstract Algebra I (Graduate), Programming Languages & Techniques

Stuyvesant High School

Advanced New York State Regents Diploma

o Honors: AP Scholar with Distinction

Projects

MultiCuber | https://github.com/esqu1/MultiCuber

June 2017 - present

- o (Node.js, MongoDB) An international platform for online friendly speedcubing competitions
- o Used Semantic UI to create front-end layout of competition rooms and Express for routing web traffic

Fish Bowl May 2017 - Aug 2017

• (Go) Used Goroutines that dramatically increase server response time for a full-fledged chat application

Penn Python SDK | https://github.com/pennlabs/penn-sdk-python

Oct 2016 - Nov 2016

- o (Flask) Developed features showing open study spaces, the Penn calendar, and laundry machine usage
- o Incorporated new features into the Penn Mobile app, increasing user base by over 3000 students

VirtCube | http://github.com/esqu1/VirtCube

June 2014

- o (Processing) Implemented turning mechanics and a timer for building a virtual Rubik's Cube game
- o Worked with colleague to focus on properly rendering the graphics of the cube in three-dimensional space

Professional Experience

Microsoft, Technical Account Mentee, New York, NY

June 2017 - August 2017

- o Shadowed Technical Account Managers to learn about enterprise-facing side of Microsoft product development
- Used Microsoft Bing Speech API to build project that demonstrates social impact of sign language translation

Penn Labs, Project Manager, Dev Ops & Software Engineer

Oct 2016 - presen

- o Current Project Manager for Penn Course Review, a platform for course ratings used by nearly all undergraduates
- Responsibilities include leading a complete rewrite of the product, working with officials to integrate PCR into other Penn products, and delegating responsibilities to software engineers & designers about infrastructure development
- o Managed deployment and fixed Django bugs for Penn Course Review as part of semesterly data updates
- o Developed new features in Python for the API of the widely-used Penn Mobile app

Art of Problem Solving, Teaching Assistant

Oct 2016 - present

- o Grading and writing personalized feedback for homework problems that boost student learning of olympiad math
- o Answering live student questions in weekly 1.5 hour sessions for various olympiad math and programming classes

Awards and Achievements

- o 4-time Guinness World Record Holder for Square-1 Average (Rubik's Cube)
- USA Computing Olympiad Gold Division Qualifier
- o YouTube Creator (6 years) w/ over 3000 subscribers
- American Invitational Math Examination (AIME) Qualifier (2013-2016)

Leadership & Volunteer Experience

World Cube Association (WCA), Volunteer & Competition Organizer

July 2011 - present

- Volunteered at over 20 regional competitions, leading competitor experience facilitation
- o Organized first speedcubing competition at Penn since 2009, attracting over 100 competitors worldwide
- o Organized NYC speedcubing competition that saw a 50% increase in competitor count

Stuyvesant HS Computer Science Dojo, Co-President/Sensei

Sept 2015 - June 2016

- o Tutored students of Introduction to Computer Science and AP Computer Science in daily after-school sessions
- o Promoted involvement in CS activities and nearly doubling the amount of students in CS community