Brandon Lin

Software Engineer

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Programming

- o Proficient in:
 - Python - Java

 - LATEX - HTML/CSS
 - Bash
- o Knowledge of:
 - JavaScript
 - SQL
 - C/C++
 - GoLang
 - MATLAB
 - Scheme

Frameworks

- o Flask
- Node
- o MongoDB
- o Cassandra
- Django
- Processing
- Jinja2
- o Jekyll

Applications

- o Git
- o GIMP o Cyberlink
- PowerDirector

Operating Systems

- o Ubuntu Linux
- Windows

Interests

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

Education

2016–2020 University of Pennsylvania, School of Engineering & Applied Science

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

Minor: Statistics (Wharton)

2012–2016 **Stuyvesant High School**, New York, NY

Advanced NYS Regents Diploma - GPA: 4.00/4.00

Professional Experience

May-Aug 2017 **Gray Matter**, Software Engineer

 Developed a back-end API/database for a full-fledged chat application written in GoLang and Cassandra

Set product specifications and deadlines for project management

Microsoft, Technical Account Mentee, New York, NY June-Aug 2017

> Shadowed Technical Account Managers to gain insight into the enterprise-facing side of software development at Microsoft

 Used Microsoft Bing Speech API & Python to present on sign language translation infused into Microsoft products as part of Microsoft's hackathon

Oct 2016–present Penn Labs, Software Engineer

o 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

Art of Problem Solving, Teaching Assistant Oct 2016–present

o 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

Penn Cubing, President Oct 2016-present

o Expanded the speedcubing community at Penn through teaching events and meetings

Sep 2015–June 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

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

Volunteered at over 20 regional competitions, assisting in competitor experience facilitation

 Organized first speedcubing competition at Penn since 2009, attracting over 100 competitors worldwide

Organized NYC speedcubing competition that saw a 50% increase in competitor count

Projects

June 2017 MultiCuber

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

May 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

June 2014 VirtCube

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

Awards and Achievements

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