

Bo (Hiroshi) Wu

📍 308 N Neville St, Pittsburgh, PA 15213 ✉ bw1@andrew.cmu.edu ☎ 412-315-9949
🌐 www.trollium.tk in www.linkedin.com/in/hiroshi-bo-wu 🐙 github.com/buhiroshi0205/

EDUCATION

Carnegie Mellon University

BS in Artificial Intelligence

Pittsburgh, PA

Expected graduation in May 2021

- **Cumulative GPA 4.0**, Dean's list
- CS Coursework: Intro to ML (PhD), Computer Vision, Parallel and Sequential Data Structures and Algorithms, Computer Systems, Competition Programming
- Math coursework: Linear algebra, multivariable calculus, discrete math, probability/stats
- Putnam math competition **Top 500**

EXPERIENCE

TechX Academy Intro to ML course Head TA

TechX Academy Summer Camp

Shanghai, China

August 2019

- Organized and handled nearly the entirety of course logistics including prep materials, registration, assignment logistics, plagiarism check, etc.
- Dutifully and patiently taught even the slowest learners past office hours to make sure they understood
- Learned a great deal on why teamwork is so important, why it is hard, and how to incorporate leadership into it.

15-251 Great Ideas in Theoretical CS TA

Carnegie Mellon University School of Computer Science

Pittsburgh, PA

Jan 2020 – May 2020

- One of the hardest and best CS undergrad courses in CMU
- Led a recitation of 11 students and mentoring 7 students
- Working together with Professors and fellow TAs to maintain the healthy operation of the course

PROJECTS (selected)

TrolliumBot <https://lichess.org/@/TrolliumBot>

March 2018 (online until present)

- A chess-playing AI on lichess.org programmed from scratch using python.
- Learned and implemented tons of sophisticated algorithms, resulting in ~1800 rating.

Alpha-c4 <https://github.com/buhiroshi0205/Alpha-c4/>

Dec 2017 – Jan 2018

- Connect 4 AI using Google DeepMind's AlphaZero algorithm that beats my friends and me every game
- I read through all of Deepmind's papers on AlphaZero to understand and recreate the algorithm.

Personal Website <https://www.trollium.tk/>

Aug 2018 – present

- WIP personal website with my projects, some useful webapps I use everyday, etc.
- Developed and deployed the whole thing by myself. Received positive comments from all my friends.

IB Extended Essay Research Paper <http://www.trollium.tk/projects/IBEE/>

March 2017

- Researched about the efficiency of artificial neural networks and got an A
- Self-learned everything from zero in as short as 1~2 weeks

*There are a lot more small projects I can't fit here like course scheduler, stocks calculator for my dad, minecraft server admin + plugin writing, etc. Whenever I feel the need for a tool (or for some fun) I simply make it.

SKILLS

Spoken languages: English, Chinese, Japanese

Programming Languages: Expert/proficient at **Python, Java, C**, LaTeX, SML, VB, Bash.

Familiar with C++, HTML/JS/CSS, SQL, Assembly.

Technologies: Expert/proficient at **PyTorch, Numpy/Scipy, Linux**, Git, SSH/SFTP, AWS, Django, REST.

Familiar with TensorFlow, Matplotlib, Pandas, Bootstrap, Vim.

+ Plus anything else you want me to learn, honestly.