ALEXANDER WANG

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https://awang.io/

Locations:
Ithaca, NY
Bay Area, CA

EDUCATION

Currently Enrolled:

Cornell University, *College of Arts and Sciences,* Ithaca, NY — **Expected May 2023**
Bachelor of Arts in Mathematics and Computer Science
GPA: 3.885

Carlmont High School, Belmont, CA — **August 2015—June 2019**
GPA: Weighted: 4.54 Unweighted: 4.0

WORK EXPERIENCE

Belmont City Hall, Belmont, CA — **June—August 2018**
Information Technology Intern
- Replaced outdated hardware for the entire building.
- Resolved software issues in Windows and Mac.

Computer Science TA, Belmont, CA — **August 2018—June 2019**
Teacher's Aid
- Helped teach curriculum material for AP Computer Science students.
- Wrote Java JUnit tests to automatically grade class assignments.

RESEARCH AND EXTRACURRICULAR

Cislunar Explorers, Ithaca, NY — **September 2019—September 2020**
Software/Trajectory Team
- Automate optimization and analyze reports for satellite launch using Python.
- Model the satellite's engines to increase the accuracy of simulated trajectories.

Cornell Data Science, Ithaca NY — **November 2020—Present**
Insights Subteam
- Advised a project with the goal of creating a machine learning model to lip read videos.

LANGUAGES

English, Chinese (Mandarin and Cantonese), Elementary German

SKILLS

Programming:

Development: C, C++, Java, Python, OCaml
*Tools***:** Numpy, Tensorflow, Pandas, BeautifulSoup, MySQL, MongoDB/MariaDB
*Web***:** HTML, Javascript, CSS
*Misc***:** GMAT script, Lua, RISC-V assembly, Arduino

Software: Blender, Adobe Photoshop, Adobe Premiere Pro, KiCAD, GMAT, STK.

Concepts:
Artificial Intelligence and Machine Learning (SVMs, Regression, Random Forests, Neural Networks), Hardware design and circuit fabrication, Data scraping.

RELEVANT COURSEWORK

Computer Science:
CS 2112: Honors Object-Oriented Programming and Data Structures,
CS 3110: Functional Programming and Data Structures,
CS 3410: Computer System Organization and Programming,
CS 4820: Introduction to Analysis of Algorithms

Math:
MATH 2210: Linear Algebra,
MATH 2220: Multivariable Calculus,
MATH 4130: Honors Introduction to Real Analysis