Alexander Wang

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https://awang.io

Education

Currently Enrolled:
Cornell University, *College of Arts and Sciences,* Ithaca, NY **Expected December 2022**
Bachelor of Arts in Mathematics and Computer Science
GPA: 3.85

Work Experience

Amazon.com, San Francisco, CA **May 2022—August 2022**
Amazon Music SWE Intern
- Designed and implemented a tool to visualize the publishing status of new content at Amazon Music using a React.js front-end and Java back-end.
- Currently In Progress

Amazon.com, Seattle, WA **May 2021—August 2021**
AWS Connect SWE Intern
- Designed a component of the CRUD API for multiple resources within the Amazon Connect service at Amazon Web Services.
- Implemented the delete APIs for those resources according to customer demands while adhering to data privacy regulations (GDPR).

Belmont City Hall, Belmont, CA **June—August 2018**
Information Technology Intern
- Provided technical support for software and hardware related issues on Windows/Mac PCs

Research and Extracurricular

Cornell Data Science, Ithaca NY **November 2020—Present**
Insights Subteam Lead
- VisualizingML: Designed a pipeline to decipher how advanced chess algorithms "think." (SP 2021)
- ProjectX 2021: Led 6 students to represent Cornell University at the ProjectX undergraduate research competition hosted by the University of Toronto. Our paper won the Epidemiology category and we presented it at the 2022 UofT AI Conference.

Cislunar Explorers (SSDS), Ithaca, NY **September 2019—September 2020**
Software/Trajectory Team
- Automate optimization and analyze reports for satellite launch using Python and model engines.

Languages

English, Chinese (Mandarin and Cantonese), Elementary German

Skills

Programming:
Front End: HTML, CSS, Javascript, Typescript, React.js, Node.js
Back End: C, C++, Java, Python
Misc: Amazon Web Services, PyTorch, Pandas, Linux,
Concepts:
Machine Learning, Hardware circuit design, Data collection and organization.

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
CS 4410/4411: Operating Systems and Practicum
CS 4780: Introduction to Machine Learning
CS 6787: Advanced Machine Learning Systems
CS 4220: Numerical Analysis: Linear and Nonlinear Problems
Mathematics:
MATH 2210/2220: Linear Algebra, Multivariable Calculus
MATH 4130/4140: Honors Introduction to Real Analysis I and II

BTRY 3080: Probability Models and Inference
MATH 4210: Nonlinear Dynamics and Chaos
MATH 4330: Honors Linear Algebra
MATH 3340: Abstract Algebra