Alexander Wang

(650) 743-3546 Bay Area, CA
alexander.wang2001@gmail.com Ithaca, NY
www.alexander-wang.net

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 (In Progress)**
Amazon Music SWE Intern
- Designed and implemented a tool to visualize the publishing status of new content at Amazon Music using a React.js frontend and Java backend.
- Integrated AWS Redshift and S3 within the tool, drawing

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 enterprise 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. (http://arxiv.org/abs/2207.01483)

Languages

English, Chinese (Mandarin and Cantonese), Elementary German

Skills

Programming:
Frontend: HTML, CSS, Javascript, React.js
Backend: C, C++, Java, Python, Node.js, SQL
Tools: Linux/Unix, AWS (CloudFront, S3, IAM, EC2, Redshift), Pandas, Numpy, CircleCI
Concepts:
Machine learning, Hardware circuit design, Data science, Numerical optimization

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 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