

Max Wu

(607) 280-2589 | mw734@cornell.edu | github.com/maxww

EDUCATION

Cornell University

Bachelor of Science in Computer Science

Ithaca, NY

Expected May 2022

- **GPA (cumulative):** 3.7
- **Minors:** Business, Latin American Studies
- **Relevant Coursework:** Object Oriented Programming & Data Structures, Functional Programming, Computational Linguistics, Introduction to Machine Learning, Learning with Big Messy Data, Databases, Probability & Statistics

PROFESSIONAL EXPERIENCE

PwC Strategy&

Summer Associate Consultant

New York, NY

Jun 2021 - Aug 2021

- Advised \$1B+ medical device company on supply chain optimization and ten-year growth strategy
- Performed a costing analysis to improve outsourcing model; resulted in projected increase of 25% in cost savings
- Developed Python scripts to automate data collection and preparation for modeling, increasing productivity by 50%

AI-Ophthalmology Center, Illinois Eye and Ear Infirmary

AI Research Intern

Remote

Jun 2020 - Aug 2020

- Applied artificial intelligence and computer vision techniques to retinal image scans to diagnose retinal diseases
- Implemented deep learning architectures such as U-Net and Res-Net for the automatic segmentation of retinal images
- Researched applicability of deep learning models commonly used in other areas and disciplines to retinal imaging; presented findings to senior faculty

PricewaterhouseCoopers (PwC)

Consultant Intern

New York, NY

Jul 2020

- Optimized volunteer retention and acquisition strategy for \$80M+ nonprofit by rebalancing spend across different categories; recommendations led to a projected 20% increase in retention rate

Genentech

Software Engineer Intern

San Francisco, CA

Jun 2019 - Aug 2019

- Led project to develop deep learning models to predict ophthalmic disease progression, achieving accuracy of 80%
- Streamlined ML pipeline with GNU Make, allowing for use in varied contexts and increasing productivity by 20%
- Preprocessed and augmented retinal images for use in machine learning models; built a dataset of 100,000+ images
- Created documentation on design choices, timelines and resources to inform future iterations of predictive models

EXTRACURRICULAR EXPERIENCE

Cornell Human Computer Interaction Lab

Student Researcher

Ithaca, NY

Jun 2021 - Present

- Conducted surveys to identify pain points of international students; analyzed data to generate actionable insights
- Performed regression analysis in Python to determine the factors most closely correlated with academic performance

PROJECTS

IPO Prediction: Predicting the success of a company's Initial Public Offering using machine learning in Python

OCaml Uno: An implementation of the card game Uno in OCaml, featuring multiplayer capabilities and a GUI

Breast Cancer Diagnosis: A classifier to distinguish between benign and malignant breast masses

Space Invaders: A space invaders clone in Python, featuring sound effects, increasing difficulty levels, and powerups

SKILLS & ACTIVITIES

Languages: Spanish (native), English (native), Mandarin Chinese (proficient)

Programming Languages: Python, Java, OCaml, Julia, Javascript, R, SQL, HTML, CSS

Technologies: Tensorflow, Keras, Jupyter Notebooks, nltk, scikit-learn

Awards: National Hispanic Scholar, Costa Rica Math Olympiad Silver, Costa Rica Philosophy Olympiad Gold

Activities: Association of Computer Science Undergraduates, Society of Hispanic Professional Engineers, Cornell Spanish Debate Society, Cornell Trading Club, Translator/Interpreter Program, Cornell Club Squash