

Peter Munn

PeterMunn.me

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EDUCATION

CORNELL UNIVERSITY

BA, COMPUTER SCIENCE

3.52 / 4 GPA

2018- May 2021

Milstein Scholar

PHILLIPS ACADEMY

ANDOVER

Sept. 2014- June 2018

Cum Laude

SKILLS

PROGRAMMING

Python (Proficient)

Java (Proficient)

C (Experienced)

ARM Assembly (Experienced)

JavaScript (Learning)

HTML (Learning)

SOFTWARE

Flask • PyTorch

Jupyter • Mathematica

LANGUAGES

NATIVE OR BILINGUAL PROFICIENCY

Spanish • Portuguese • German

ELEMENTARY PROFICIENCY

Mandarin (3 years of study)

HONORS & AWARDS

TAPIA 2020 AWARD

CORNELL- AUGUST 2020

Awarded funding to attend 2020

ACM Tapia Conference in Computing

MILSTEIN SCHOLAR

CORNELL- MAY 2019

One of 25 students in inaugural

class of Milstein Program in

Humanity and Technology

COMMUNITY ENGAGEMENT LEADERSHIP AWARD

PHILLIPS ACADEMY- JUNE 2018

Given for excellence in leading a

community service program

STEVENSON PRIZE

PHILLIPS ACADEMY- JUNE 2018

Awarded to top German language

student of graduating class

EXPERIENCE

ML RESEARCHER | MCMAHON LAB FOR QUANTUM COMPUTING

Aug.- Dec. 2019

- Developed PyTorch model for simulated physical computer (Coherent Ising Machine)
- Implemented differential equation-based neural networks for linear regression

CIRCUIT ENGINEER | SOUND LASER

Aug.- Dec. 2019

- Designed circuit for experimental sound laser
- Used function generator and oscilloscope to project any sound frequency in collimated beam, effectively a "sound laser"

SOFTWARE MARKET ANALYST | CANTO SOFTWARE

May- Aug. 2019

- Compiled report on digital-asset-management software market trends using 40+ unique sources including competitor infiltration
- Presented findings to 30 person office, material now used by sales team

PROJECTS

OBSTACLE DETECTION HAT AUG. 2019- CURRENT

- Designed hardware and software for hat that detects obstacles in 60° arc ahead of user
- Managed market research team to interview people with low-vision (milstein-program.as.cornell.edu/h-t-seeing-sound)

MULTIPLAYER ONLINE GAME JUL. 2020- CURRENT

- Developed probability algorithm based on client-sided known and unknown variables
- Developed algorithm to dynamically change and sync client-sided UI (github.com/CodingPerudo)

ONLINE ORBIT SIMULATOR JUN. 2020

- Designed JavaScript orbit simulator using differential equations and Newtonian physics
- Implemented collisions, gravitational force, and dynamic resizing (petermunn.me/gravitygame/ball_game.html)

RELEVANT COURSEWORK

COMPUTER SCIENCE

- Intro to Analysis of Algorithms (**current**)
- Foundations of Artificial Intelligence (**current**)
- Operating Systems (**current**)
- Embedded Systems
- Smartphone Computing Technology

PHYSICS

- Basics of Quantum Mechanics
- Mechanics and Special Relativity (*Honors*)
- Electricity and Magnetism (*Honors*)
- Waves & Thermal Physics (*Honors*)