

Henry Houghton

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EDUCATION

Cornell University

Ithaca, New York

Bachelor of Science: Information Science, Concentration: Data Science

Expected May 2025

- **Academics:** Dean's List 2024, 2025
- **Honors:** ROTC National Merit Scholarship, Milstein Scholarship Finalist
- **Relevant Coursework:** Stochastic Processes, Linear Algebra II, Statistics, Networks, International Trade & Finance, Micro and Macroeconomics, Data Science, Web Design, Accounting, OOP

London School of Economics

London, United Kingdom

AC215 Business Analysis and Valuation

Summer 2023

WORK & LEADERSHIP EXPERIENCE

Badger Meter

Los Gatos, California

Software Engineering Intern, Analytics & DE Search Team

January 2022 – August 2024

- Developed backend API endpoints with AWS Lambda and Amazon Cognito
- Built data collection services that point to Elasticsearch which resulted in cost savings, ease of access data and clarity across the codebase and programs
- Improved SEO and site accessibility by restructuring the HTML and NodeJS front end
- Rebuilt components with Web Development and Design teams for SEO

J² Lab Cornell University

Ithaca, New York

Scientific Research Assistant

October 2021 – March 2022

- Developed a neural network using TensorFlow with high-throughput chemical simulations
- Engaged in parameterizing molecular models with machine learning
- Collaborated with development team in programming the backend molecule classifier and pipeline
- Worked classifying combinatorial possibilities of medical-grade alloys and composite mixtures

Reserve Officer Training Corps (ROTC)

Ithaca, New York

MSIV Cadet, Army ROTC

August 2021 – March 2025

- Delivered bimonthly public speaking events to audiences of 50+ cadets and faculty
- Led Ranger Challenge Team as the Co-Captain qualifying top ten in the Brigade
- Graduated Airborne School Class 24-23, 2nd Platoon
- Served as a Platoon Leader for 30 cadets, coordinating logistics and training plans

Relevant Personal Projects, Github: hph45

Momentum Options Pricing Algorithm in Python

January 2025 - Present

Chess Mobile App using Minimax Algorithm in Swift

2024

Twitter Sentiment Analysis Program in Python

2018

SKILLS, ACTIVITIES & INTERESTS

Languages: Fluent in Spanish; Conversational Proficiency in Russian, Learning Japanese

Technical Skills: Python, Java, C++, R, TensorFlow, Elasticsearch, HTML, CSS, NodeJS

Athletic Achievements: Cornell University Sprint Football, 20-2 Varsity Squash Record

Activities: Tennis, Club Wrestling, Club Brazilian Jiu-Jitsu, Club Climbing Team

Interests: F1, Backpacking, Surfing, Chess, Russian Literature