

# Noah Wilson

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## EDUCATION

### CORNELL UNIVERSITY COLLEGE OF ENGINEERING

*Bachelor of Engineering in Electrical and Computer Engineering | Minor in Applied Economics and Management*

Honors: Tau Beta Pi | Brookhaven Science Associates Scholar | NY Merit Scholar | CSFL All-Academic Team | SAT 1570 | LSAT 169

Relevant Coursework: Object Oriented Programming | Introduction to Python | Futures, Options, and Derivatives | Quantum Physics Honors Mechanics Physics | Nuclear Science | Linear Algebra | Differential Equations | Engineering Data Science | Microeconomics

**Ithaca, New York**

*Anticipated Graduation: May 2025*

*Current GPA: 3.85*

## WORK EXPERIENCE

### CORNELL HIGH ENERGY SYNCHROTRON SOURCE

*Computational Scientist*

**Ithaca, New York**

*June 2024 – Present*

- Designed strategies for orbit correction with machine learning across 40+ hours weekly at the Cornell Electron Storage Ring (CESR)
- Deployed PyTorch frameworks paired with Stable-Baselines3 and Ray on particle accelerator simulations using the BMAD ecosystem of tools
- Managed the machine learning initiative at CESR by hosting weekly meetings and individual advising for 30+ other computational scientists

### BROOKHAVEN NATIONAL LABORATORY

*Computational Scientist Intern*

**Upton, New York**

*June 2023 – August 2023*

- Worked 40+ hours weekly designing machine learning models with PyTorch to synthesize and analyze a range of data from NSLS-II
- Attended 20+ scientific and computational discussions hosted by field experts regarding public policy, physics research, and software development
- Created a research report, general audience poster, and presentation of my findings for 100+ experts, researchers, and other interns

### CORNELL UNIVERSITY PLASMA PHYSICS LABORATORY

*Undergraduate Assistant Researcher*

**Ithaca, New York**

*December 2022 – May 2023*

- Collaborated with a post-doctorate and professor 20+ hours a week to research the phenomena of laser light turbulence through a plasma
- Independently studied 100+ hours on optical principals including Fourier transforms, Ronchi rulers, spherical lenses, and cylindrical lenses
- Assisted in and oversaw 15+ experimental trials before reconfiguring the setup of the experimental laser using developed knowledge

### STUDENT SUBJECT REVIEWS

*Freelance Tutor*

**Mount Sinai, New York**

*March 2020 – May 2023*

- Founded a volunteer organization that created 20+ free, public educational videos to assist students through virtual pandemic learning
- Managed and coordinated with 5+ other organization members to expand our library of student resources through subject specialization
- Offered 100+ hours of individualized tutoring sessions to supplement students' learning of subjects including mathematics and science

## LEADERSHIP & ACTIVITIES

### CORNELL FINTECH CLUB

*Financial Software Engineer*

**Ithaca, New York**

*February 2024 – Present*

- Designed an LSTM machine learning model relating oil reserves, production rate, and weather on local oil prices with 93.64% accuracy
- Integrated sub-team models into a comprehensive website and constructed user interface elements with functionality for 50+ viewers
- Organized recruitment initiatives and 20+ team meetings with emphasis on GitHub collaboration and integrating finance team research

### STUDENT ACTIVITIES FUNDING COMMISSION

*Recruitment Chair/Commissioner*

**Ithaca, New York**

*September 2023 – Present*

- Deliberated with 40+ other commissioners to delegate a budget of \$10,000,000+ for annual funding and hosting public student events
- Consulted for 30+ organizations to rectify funding problems, establishing frequent communication methods to mitigate client concerns
- Organized recruitment initiatives including coffee chats, social media takeovers, and interviews, boosting applicant number by 300%

### CORNELL SPRINT FOOTBALL

*Varsity Student-Athlete*

**Ithaca, New York**

*September 2023 – Present*

- Committed 30+ hours weekly attending meetings, practices, team bonding activities, games, recruitment events, and alumni outreach
- Practiced and competed with 60+ other student-athletes as a varsity football kicker with a commitment to rigorous training programs
- Coordinated student-athlete commitments and offered guidance to 40+ student-athletes about various athletic programs and resources

## SKILLS & INTERESTS

**Skills:** Python | Java | PyTorch | Overleaf | Spanish (proficient) | Matplotlib | HTML | CSS | JavaScript | Excel | Google Firebase | GitHub

**Interests:** New York Yankees | Fantasy Football | Star Wars | Monopoly | Italian Cuisine | New York Times Games | Phi Sigma Kappa