

# ARI MIRSKY

914-844-6779 | arimirsky@gmail.com | github.com/AriMirsky | linkedin.com/in/AriMirsky

## OBJECTIVE

An internship which will allow me to utilize my coding and math skills to solve computer science problems.

## EDUCATION

### Cornell University

*John McMullen Dean's Scholar*

*B.S. in Computer Science, In Progress (Anticipated May 2025)*

*GPA: 4.15/4*

Ithaca, NY

*Aug. 2021 – Present*

### Briarcliff High School

*Regents Diploma with Honors and Distinction in Mathematics*

*GPA: 101.36/100*

Briarcliff Manor, NY

*Sep. 2017 – June 2021*

## RELEVANT COURSES

- Data Structures and Functional Programming
- Object Oriented Programming and Data Structures
- Discrete Structures
- Linear Algebra for Engineers
- Differential Equations for Engineers
- Multivariable Calculus for Engineers
- AP Computer Science A
- AP Mathematics: Calculus BC

## EXPERIENCE

### Programmer Analyst, Niemack Research Group

*Cornell University*

May 2022 – Present

*Ithaca, NY*

- Modernized legacy excel programs into Python
- Created an automated data pipeline from telescope parameters to constraints on cosmological parameters
- Published open source generalizable code for other telescope designs and locations

### Navigation Developer, Cornell Autonomous Bicycle

*Cornell University*

Oct. 2021 – Present

*Ithaca, NY*

- Contributed to a repository with 25k+ lines of code
- Worked with a team to create path following and collision avoidance algorithms
- Integrated bicycle hardware with pathing software using ROS

### Research Assistant, Rivnay Research Group

*Northwestern University*

Sep. 2018 – June 2020

*Evanston, IL*

- Independently designed and conducted experiments about properties of organic electrochemical transistors
- Created documentation for newly constructed apparatuses
- Wrote 12 page research paper summarizing findings

## PROJECTS

### Discord Bot | Python, Discord.py

June 2021 – July 2021

- Created a discord bot that responded to messages sent in selected discord servers
- The bot asynchronously responded to user input
- Integrated with open source Discord.py

### Inverted Pendulum Game | Java, Git, Swing

Dec. 2021 – Present

- Created a game about balancing an inverted pendulum
- Designed a custom user interface using Swing
- Implemented user-adjustable difficulty settings

## TECHNICAL SKILLS

**Languages:** Java, Python, Anaconda, JavaScript, HTML/CSS, R, OCaml

**Frameworks:** Swing, FastAPI, Discord.py, ROS

**Developer Tools:** Git, Visual Studio Code, Eclipse, BlueJ, Jupyter Notebook

**Libraries:** NumPy, Matplotlib