Ari Mirsky

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Objective

An internship which will allow me to utilize my problem solving skills and attention to detail to solve computer science problems.

Education

Cornell University — Ithaca, NY
John McMullen Dean's Scholar — *Aug. 2021 – Present*
B.S. in Computer Science, In Progress (Anticipated May 2025)
GPA: 4.23/4

Briarcliff High School — Briarcliff Manor, NY
Regents Diploma with Honors and Distinction in Mathematics — *Sep. 2017 – June 2021*
GPA: 101.36/100

Relevant Courses

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

Experience

Navigation Developer, Cornell Autonomous Bicycle — Nov. 2021 – Present
Cornell University — *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 — Sep. 2018 – June 2020
Northwestern University — *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