Ari Mirsky

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Objective

An internship which will allow me to utilize my problem solving skills and attention to detail to further develop my computer science abilities.

Education

Cornell University — Ithaca, NY
Bachelor of Science in Computer Science, In Progress (Anticipated June 2025) — *Aug. 2021 – Present*
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

Relevent Courses

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

Experience

Cornell Autonomous Bicycle Navigation Developer — 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 pathing software with bicycle hardware using ROS

Research Assistant — 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* — June 2021 – July 2021
- Created a discord bot that responded to messages sent in selected discord servers
- Asynchronously responded to user input
- Integrated with open source discord.py
- Hosted 24/7 on servers with 99.98% uptime

Inverted Pendulum Game | *Java, Git, Swing* — Dec. 2021 – Present
- Created a game about balancing an inverted pendulum
- Made 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