Ari Mirsky

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OBJECTIVE

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

EDUCATION

Cornell University   Ithaca, NY
John McMullen Dean's Scholar   *Aug. 2021 – Present*
B.S. in Computer Science, In Progress (Anticipated June 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

RELEVENT 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
- 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