

ARI MIRSKY

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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

- Introduction to the Analysis of Algorithms
- Computer System Organization and Programming
- 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 (40 hrs/wk)

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 (10 hrs/wk)

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 (40 hrs/wk Jun.-Aug., 10hrs/wk Sep.-May)

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

Boggle Solver | JavaScript, React, Git

Jan. 2022 – Present

- Created machine learning image recognition for a picture containing a grid of letters
- Utilized dynamic programming to efficiently compute longest words in the letter grid
- Built a web application using the React framework

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

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

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML/CSS, R, OCaml, C++, TypeScript, Rust

Frameworks/Libraries: Swing, FastAPI, Discord.py, ROS, Gazebo, NumPy, Matplotlib

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