ARI MIRSKY

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EDUCATION

Cornell University

Ithaca, NY

John McMullen Dean's Scholar

Aug. 2021 - Present

B.S. in Computer Science, In Progress (Anticipated May 2025) GPA: 4.06/4

Briarcliff High School

Briarcliff Manor, NY

Regents Diploma with Honors and Distinction in Mathematics

Sep. 2017 – June 2021

GPA: 101.36/100

UnifiedAuth Team

EXPERIENCE

Software Engineer, Amazon

May 2023 – Aug. 2023

New York, NY

Visualized call graph between microservices within Amazon

- Used SQL queries through Amazon's Redshift to process telemetry data
- Created a microservice using EC2 instances alongside S3 buckets to respond to queries that allowed services to determine their callers' Transitive Authentication adoption status

Programmer Analyst, Niemack Research Group

May 2022 – May 2023

Ithaca, NY

Cornell University

- 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
- Produced simulated maps of the sky using calculated sensitivity data

Navigation Team Lead, Cornell Autonomous Bicycle

May 2022 – Present

Ithaca, NY

Cornell University

- Managed a software team of 6 developers
- Researched, designed, and implimented reinforcement learning algorithms for obstacle avoidance, including Q-learning
- Researched and designed supervised machine learning algorithm for determining how densly to sample the future state space
- Constructed a future plan for the team to transition from an autonomous bicycle to autonomous drone once testing is finalized

Navigation Developer, Cornell Autonomous Bicycle

Oct. 2021 - May 2022

Cornell University

versity 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

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

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
- Honors Linear Algebra
- Operating Systems
- Probability and Statistics

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