

# Matthew C. Voynovich

Roslyn Heights, NY | +1 (917) 391-8499 | Voynovich.Matt@gmail.com  
<https://www.linkedin.com/in/matthew-c-voynovich> | <https://mvoynovich.github.io>

## EDUCATION

### RENSSELAER POLYTECHNIC INSTITUTE

Troy, NY

B.S. in Computer Science and Information Technology & Web Science  
Concentration in AI, Machine Learning, and Data Science

Aug 2023 - Expected May 2026

**Cumulative GPA:** 3.97/4.0; Dean's List 2023-2024

**Relevant Coursework:** Data Structures, Algorithms, Foundations of Computer Science, Discrete Mathematics, Numerical Techniques in Computing, Intro to Logic Based AI, Computer Organization, Web Systems Development

**Technical Skills:** Advanced in SQL, PHP, Javascript, HTML/CSS; Proficient in MATLAB (Linearizing Data, Numerical Computing Techniques, and Modeling), Python, C, C++ (Data Structures Implementation), and Java

**Awards and Leadership:** 3x Dean's Honor List; Head of Events/Coach for Rensselaer Running Club, UPE Honor Society Member

### ROSLYN HIGH SCHOOL

Roslyn Heights, NY

Weighted GPA: 103.5

Sep 2019 - June 2023

National Honor Society, Science National Honor Society, Cross Country and Track Captain;

## PROJECTS

### AUTOMATED REASONING LIGHTUP (AKARI) SOLVER

RPI, NY

Developer

Nov 2024 – Dec 2024

- Solved the popular logic puzzle, Akari, using Z3, a SMT solver, applying automated reasoning techniques to efficiently solve puzzle configurations.
- Implemented constraint-based algorithms to validate board configurations against game rules and generate solutions dynamically. Utilizing automated reasoning techniques to efficiently solve board states, ensuring logical accuracy.

### FRESH N' CLEAN

RPI, NY

Developer and Project Lead

Aug 2024 – Dec 2024

- Co-developed Fresh n' Clean, an on-demand laundry service platform connecting users with laundromats and independent contractors, similar to Uber.
- Utilized JavaScript, PHP, Google Maps API, and PayPal API to create an interactive and effective web application.
- Collaborated in a team using a modified Agile Scrum framework, focusing on iterative development and feedback loops.
- Managed group work effectively through GitHub Projects and Issues for task tracking and version control.

### HOUND

RPI, NY

Developer

Aug 2023 – Dec 2023

- Co-developed Hound, a web application aimed at improving RPI's lost and found system by unifying disparate processes into a centralized platform.
- Implemented PHP and MySQL for database management, providing a functional and accessible solution for tracking lost and found items.
- Collaborated with a team of two classmates, utilizing Git and GitHub for version control and project management.

### ID3 Decision Algorithm

Roslyn High School, NY

Developer

Nov 2022 – Dec 2022

- Implemented the ID3 algorithm to build a decision tree for making optimal decisions based on data input from a CSV file.
- Applied machine learning principles to optimize decision-making by calculating information gain and selecting the best attributes for data splits.
- Processed large datasets in Java, building a model capable of classifying new, unseen data with improved accuracy.

## ACTIVITIES

### RENSSELAER RUNNING CLUB

RPI, NY

Head of Events/Coach

Aug 2023 – Present

- Coordinate race and meeting schedules for the running club, ensuring effective event planning and smooth operations.
- Maintain a disciplined daily training regimen to prepare for competitive races, while also coaching club members to help them improve their personal fitness and performance.

### UPSILON PI EPSILON HONOR SOCIETY

RPI, NY

Member

Nov 2024 – Present

- Member of the international honors society for the computing and information disciplines.