

Marin P. Marinov

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EDUCATION

Macaulay Honors College at Hunter College

Bachelors in Computer Science | Minor: Mathematics, Psychology | GPA: 3.87

New York, NY
Expected: May 2021

Honors and Awards

William E. Macaulay Honors College Scholarship, full tuition merit scholarship
Daedalus Honors Computer Science Scholar

August 2017 – May 2021
January 2018 – May 2021

Relevant Coursework

Algorithms, Data Structures, Machine Learning, Computer Architecture, Multi-variable Calculus, Operating Systems

TECHNICAL SKILLS

Programming Languages: C++, Python, JavaScript, TypeScript, C#
Software Tools: Git, GNU Make, Cmake, Microsoft Office, AirTable, MonkeyLearn, Trello
Front-End Technologies: jQuery, Angular.js, React.js, Redux.js, Gatsby.js, Bootstrap
Back-End Technologies: Node.js, Express.js, Jest.js, Doctest, PostgreSQL, MongoDB, GraphQL

EXPERIENCE

WeWork | WeWork Labs

Software Engineer

New York, NY
June 2019 – August 2019

- Designed an interface to show mentor data using **React** to refine the company's mentor sign up form and expedite mentor vetting process from half an hour to a minute.
- Constructed Models using **MonkeyLearn's Machine Learning API** and **Node** to parse long form entry texts into action items for prioritizing and department routing.

CUNY Hunter College | Research Foundation of CUNY

Research Assistant

New York, NY
May 2020 – Present

- Applied **Multi-Agent Systems AI** to lower average travel time for drivers through simulations using **Python**.
- Researched network topology representations to tackle the problem of traffic congestion under professor Anita Raja.
- Created **PowerPoints** to present papers on applying **evolutionary strategies** to traffic.

PROJECTS

Jumbled, Group Project | University Prep Charter High School

July 2020 – Present

- Developed the backend of an educational app to help teachers conduct fair and easy distance-learning testing using **TypeScript, Node, and Express**.
- Structured the database using **MongoDB** and designed the API to generate tests and sign up students and teachers with **token-based authentication**.

A Multifaceted Approach to 2048 Game, Group School Project | Hunter College

May 2020

- Experimented with **Evolutionary Strategy CMA-ES** to optimize **heuristic weights** to train AI to play 2048 using **Python** and **Expectimax algorithm**.
- Documented findings with **LaTeX** and showed how the AI was able learn to play up to the 8192 tile.

ClusterDuck, Group Project | Hunter Codefest

January 2020

- Social media app aimed at creating community by allowing users to post questions/advice about computer science and reply to each other as well as view each other's profiles. **Containerized** the app with **Docker**.
- Implemented the app's routes, profile pages, registration and login using **MongoDB, React, Node** and **Express**.

InstaPet, Group Project | NYC Tech Talent Pipeline

June 2019

- Built a full stack app that acted as a place for people to make an account, share pictures of pets, and follow one another.
- Managed the app's database, Redux store and routes using **React-Redux, PostgreSQL** and **Express**.

SKILLS

Languages: English (fluent), Bulgarian (Native), Spanish (Elementary)

Interests: Nutrition, Weightlifting, Handball, Drawing, Ping Pong