

Marin P. Marinov

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EDUCATION

Macaulay Honors College at CUNY Hunter College

Bachelors in Computer Science | Minor: Mathematics, Psychology | GPA: 3.88

New York, NY

May 2021

Honors and Awards

William E. Macaulay Honors College Scholarship, full tuition merit scholarship

August 2017 – May 2021

Daedalus Honors Computer Science Scholar

January 2018 – May 2021

TECHNICAL SKILLS

Programming Languages: C++, Python, JavaScript/TypeScript, Java, SQL

Software Tools: Git, GNU Make, Cmake, Maven, Confluence, AirTable, MonkeyLearn, Trello, Jira

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, Redis, Spring

EXPERIENCE

The Vanguard Group Inc. | Enterprise Advice

Malvern, PA

Software Engineer

June 2021 – Present

- Enhanced Division's data lake **DynamoDB** pipeline by refactoring and improving **AWS Lambda, Firehose, S3, and Glue Crawler** to enable multi-region allowing the pipeline to have 99.99% uptime and store data from newer schemas.
- Maintained division's **Web Portals** through **Kong** and **Rapid API** that stored company's API specs and created a pipeline using **Python** and **Docker** to automatically validate, upload, and delete specs from the portal, saving the company hours every week.
- Manufactured synthetic testing as well as an ad hoc action and no action run using **AWS Lambdas, Java** and **Python** that accelerated testing the security recommendation process from 24 hours to about 20 minutes and hastened error catching from twice a day to every hour.

CUNY Hunter College | Research Foundation of CUNY

New York, NY

AI Research Assistant, Supervised by Professor Anita Raja

May 2020 – June 2021

- Applied **Multi-Agent Systems AI** to lower average travel time for drivers through simulations using **Python**.
- Created **PowerPoints** to present papers on applying **evolutionary strategies** to traffic.

WeWork | WeWork Labs

New York, NY

Software Engineer Intern

June 2019 – August 2019

PROJECTS

Info-Hawk, Private Project | Personal Development

March 2022 – March 2023

- Full-stack questionnaire-creator application made with **EJS, TypeScript, Express, MongoDB** and **Redis**
- Expedited Accountant's process of retrieving client information for taxes from hours on the phone to 30 minutes.

A Multifaceted Approach to 2048 Game, Group Project | CUNY 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 8192th 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**.

SKILLS

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

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