

# Justin Marler

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## EDUCATION

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**Hamilton College**, Clinton, NY

*Bachelor of Arts*, Computer Science & Economics, Mathematics

August 2018 - May 2022

Overall GPA: 3.82/4.0

Coursework: Algorithms & Data Structures, Artificial Intelligence, Computer Architecture & Organization, Principles of Programming Languages, Linear Algebra, Multivariable Calculus

**Deerfield Academy**, Deerfield, MA

*High School*

September 2014 - May 2017

Average: 92.4; ACT: 35

## PROJECTS

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**MAPS Benchmark:** Python script suite to assess Multi-Area Production Simulation model fidelity.

**pyRISK:** Object-oriented Python implementation of the classic strategy board game, with GUI.

**Publist:** Flutter mobile application to query local grocery stores and produce aisle-sorted grocery lists.

**Huffman++:** Compression algorithm utilizing a min-heap priority queue and binary trees in C++.

**RuneSpotify:** Java plugin to integrate Spotify user content into open source RuneScape client.

## TECHNICAL SKILLS

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**Languages**

Python, C++, Java, JavaScript, SQL, Shell/Bash Scripting

**Technologies**

Git, Visual Studio, Docker, Microsoft Excel, L<sup>A</sup>T<sub>E</sub>X

## WORK EXPERIENCE

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**GE Power**

*Technical EID Intern*

June 2020 - Current

- Streamline and update GE-MAPS benchmark reports to validate models against real market results.
- Create or update supplemental Python scripts to aid data analysis and improve model fidelity.
- Work with software engineering team to lead deployment of post-processing code alongside simulations.
- Coordinate with external clients to produce tailored code solutions for automated simulation summaries.

**Hamilton College Computer Science**

*Teaching Assistant*

September 2019 - Current

- Aid introductory Computer Science students in Python and C++ projects, labs, and exam preparation.
- Grade student projects and advise improvements in coding style and use of programming concepts.

**Chickendoodles, LLC**

*Employee*

June 2019 - August 2019

- Receive and manage incoming and oversee outgoing shipments for resale in Amazon warehouses.

## EXTRACURRICULAR

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**Hamilton College Club Hockey**, Assistant Captain

September 2019 - Current

- Organize team logistics and game scheduling and serve as liaison with league officials.

**School Clubs:** Coding Team, ethiCS