

Jake Giguere

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Boston, MA

EDUCATION

Wentworth Institute of Technology <i>Bachelor of Science in Computer Science, Minor in Applied Mathematics</i>	Boston, MA
Boston University <i>M.S. in Computer Science concentration in Data Analytics (Expected: 2024)</i>	Boston, MA

GPA: 3.33

- Honors: Paragon Award for Outstanding Senior/Fifth Year Leadership nominee, Deans list 2021-22, 22-23
- Relevant courses: Algorithms & Data Structures, Machine Learning, Parallel Programming, Quantum Computing, Linear Algebra, Public-key Cryptography, Blockchain Technologies, Compilers, Database Security

SKILLS

Programming Languages: Java, Python, C, C++, R, Solidity, JavaScript

Frameworks: React, Django, Hardhat

Machine Learning: Scikit-learn, PyTorch, NumPy

Databases: PostgresDB, MySQL

Cryptography: ETH EVM, Smart Contracts, Hardhat, PK-Cryptography

Cloud Computing: Deploying CI/CD Pipelines, Heroku, AWS S3

Distributed Computing: OpenMP, MPI, MPI4py

Languages: English (Native), Spanish (Conversational)

WORK & PROJECT EXPERIENCE

Wentworth Institute of Technology <i>Machine Learning Intern</i>	Boston, MA <i>September 2022 – December 2022</i>
<ul style="list-style-type: none">• Implemented custom machine learning models for analyzing Major League Baseball data, resulting in a 13% improvement in accuracy over existing models• Optimized Steepest Descent algorithm for predicting team performance to achieve a prediction accuracy of 86%• Distributed workload using MPI in C to reduce computation time by 40%• Employed TAU Performance System to create a visual representation of system performance and identify areas for further optimization• Results of the project have been submitted the National Math Festival for a workshop and presentation	

What's The Word App <i>Founder</i>	Boston, MA <i>May 2021 – January 2022</i>
<ul style="list-style-type: none">• Led the development of a mobile app using Django, and React Native, resulting in a fully functional app that was deployed on TestFlight for beta testing• Integrated various third-party APIs, including Google Maps and Stripe, to add key features to the app• Conducted comprehensive testing using MochaJS to ensure app functionality across various devices and operating systems, using TestFlight to beta test and implement improvements from user feedback• Designed and deployed a CI/CD pipeline to automate the build and deployment process, utilizing various tools including Heroku and GitHub	

MENTOR EXPERIENCE

Wentworth Institute of Technology Success Studio <i>Algorithms, Machine Learning, Parallel Programming Tutor</i>	Boston, MA <i>January 2023 – Present</i>
<ul style="list-style-type: none">• Explained complex concepts by breaking down algorithms and data structures into simpler concepts that the student could understand• Maintained accurate records of student progress and communicated weekly to ensure their involvement in the learning process• Facilitated group discussions and encouraged critical thinking to help students understand how algorithms work and how to approach algorithmic problems	