Charlie Gagnon

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EDUCATION

Brown University September 2018 - May 2022 Sc.B. - Computer Science, magna cum laude Providence, RI **Natick High School** September 2014 - June 2018 Natick. MA

WORK EXPERIENCE

EDG Engineer July 2022 - Present

MathWorks

- · While working in the HDL Coder team, implemented timing-slack calculations and multiple path analysis for pre-synthesis critical path estimation on hardware models designed in Simulink.
- · As part of the SIT Plan team, authored and maintained internal training materials used by hundreds of new hires worldwide for learning about MathWorks server products and workflows.
- · As part of the **DTA Support** team, provided direct support via email and phone to customers using external language interfaces, external hardware, and server products.

Software Engineering Intern

May 2021 - September 2021

MathWorks

· While working in the Cloud Platform team, developed a log anomaly detection and remediation system for Kubernetes apps, coordinating Fluent Bit, Elasticsearch, and AWS Lambda to discard unwanted logs.

Virtual Student Intern

September 2020 - May 2021

National Park Service - South Florida / Caribbean Network

- · Designed computer vision system to classify and count colonial nesting birds in Biscayne National Park.
- · Team of 3 selected as **Team Project of the Year, 2021**, from a pool of more than 3,000 interns.

Undergraduate Teaching Assistant

August 2020 - May 2022

Brown University Computer Science Department

- · Guided students at weekly code and conceptual hours, responded to student questions on course forum page, and revised assignments and solution code.
- · Courses supported: Operating Systems (Spring 2022), Programming Language Design (Fall 2021), Intro to C and Computer Systems (Fall 2020).

Math and Physics Tutor

October 2019 - May 2022

Brown University Sheridan Center

- · Prepared and delivered weekly lessons for multiple groups of five students.
- · Courses tutored: Probability and Statistics (Summer 2020 Spring 2022), Introductory Mechanics (Spring 2020), and Multivariable Calculus (Fall 2019).

SKILLS & SELECTED COURSEWORK

- \cdot C \cdot C++ \cdot Rust \cdot Python \cdot Java \cdot Verilog
- · Operating Systems · Networks · Architecture
- · Compilers · Programming Languages
- · Machine Learning · Computer Vision · Graphics
- · Complex Analysis · Abstract Algebra
- · Modern Statistics (Information Theory, Learning Theory, Graphical Models)

ENGAGEMENT & AWARDS

Brown University Band

Vice President Nov. 2019 - Nov. 2020

- · Set performance schedule and prepared marching forms for field and ice shows.
- · Acted as primary contact between Brown Athletics and the Band.
- · National Merit Scholar

May 2018

· MA Speech & Debate State Champion April 2017

Student Congress