

Cambridge, MA

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Software Skills

Programming Javascript (React, Material-UI, Express), Python (Django, Locust), Bash, FIFX, Java, C++, Lua

Tools/Services Google Cloud Platform, Google Cloud Computing, Firebase, Firestore, Docker, Kubernetes, Terraform, Stripe

Work Experience __

Harvard High Performance Computing

Cambridge, MA

Jun. 2020 - September. 2020 SOFTWARE ENGINEER

- Refactored the user account creation pipeline, increasing processing speed by 15 times (Python, Bash). View final presentation.
- Coded performance tests which exposed high load averages on web server hosts. Identified a way to reduce it by 70% (Locust).
- Built a dashboard that enables non technical users to understand the complex Harvard super computer status (React, Passenger, Node).

Artifai Cambridge, MA

CO-FOUNDER & SOFTWARE ENGINEER

Mar. 2020 - Present

- Making neural style technology available to non technical users, while streamlining the process for users to purchase their art on a poster/canvas.
- · Architected the backend for performing neural-style (Google Cloud Computing and Firebase Functions).
- Developed the user authentication and social databases (Firebase, Firestore, and Node.js).
- · Built the user interface. Visit the business at https://artif.ai. To date there have been over 300 users (React, Webflow).

NeuroTech Montreal, QC

DASHBOARD & ML DEVELOPER

Feb. 2020 - Present

- · Working with Neurotech to build a non-invasive forearm band that can predict which keys a user is typing without the need for a keyboard. Applications include augmented reality.
- Constructed a dashboard for visualizing realtime ML model predictions and signal data (React).
- Developed a pipeline for interfacing between ML model predictions and frontend applications (SocketIO, Python).

Epigenosys Montreal, QC

FULLSTACK DEVELOPER

Sept. 2019 - Dec. 2019

- Engineered a machine learning model for predicting a human's age based on the methylation data extracted from their blood sample (Keras).
- Achieved 100% accuracy ± 10 years and > 90% accuracy ± 5 years.
- Deployed a web interface that enables clients to interact with the machine learning model. Users can tune each of the 25 features and see how predicted age changes (Django).
- · Presented research at McGill Science and Synergy. Made the front page of Hacker News with over 100 upvotes.

Harvard High Performance Computing

Cambridge, MA

SOFTWARE ENGINEER

May. 2019- August. 2019

- Deployed a web interface that enables hundreds of clients to view, request, or terminate their storage allocations (Django).
- Designed a mysql database model for tracking storage allocations and storage transactions (MySQL).

Aspine Cambridge, MA

CO-FOUNDER & SOFTWARE ENGINEER

Jan. 2019, June. 2019

- Architected Aspine, an Open Source project that revolutionizes the user interface for Aspen, a grade checking service, with many new features and improved aesthetics (Node, HTML request mimicking). Github — https://Aspine.us. Aspine is now preferred by over 500 students.
- · Reverse engineered an API for extracting student information from Aspen using HTML request mimicking (Node.js).

Honors & Awards

2020 McGill Faculty of Science Scholarship, Montreal, OC

2019 McGill Major Renewable Entrance Scholarship, Montreal, OC

2018 Harvard Book Award, Bethesda, MD

Education

McGill (CGPA 3.97)

Montreal, OC

B.S. IN HONORS COMPUTER SCIENCE AND MATH. LIST OF COURSEWORK

Aug. 2019 - Apr. 2022