

Software Skills

Programming Javascript (React, Material-UI, Express), Python (Django, Locust), Bash, Perl, Java, C++, Lua
Tools/Services Google Cloud Platform, Google Cloud Computing, Firebase, Firestore, Docker, Kubernetes, Terraform, Stripe

Experience

Study Together

TECH LEAD

Jan. 2021 - May. 2021

- Study Together is offering focused study sessions to the largest student community on Discord.
- Coded an api for interacting with user profiles and statistics data (Quart, SQLAlchemy, Aioredis, Discord.py)
- Built a dashboard used by **1000** users per day for checking their study statistics

Sweater Planet

Montreal, QC

SOFTWARE ENGINEER INTERN

Jan. 2021 - March. 2021

- Architected and deployed a kubernetes cluster to serve the backend microservices (Kubernetes, Kustomize, Google Kubernetes Engine).
- Deployed the frontend applications (Google Cloud Run).
- Dockerized the frontend and all the backend microservices (Docker, Docker Compose)
- Designed and implemented CI/CD pipelines for the backend/frontend to build and deploy docker images automatically (Github Actions).

Harvard High Performance Computing

Cambridge, MA

SOFTWARE ENGINEER INTERN

Jun. 2020 - September. 2020

- 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 (Firestore, and Node.js).
- Built the user interface. Visit the business at <https://artif.ai>. To date there have been over **7000** artifications (React).
- Turned Down Acquire Offers and Went Open Source

NeuroTech

Montreal, QC

SOFTWARE ENGINEER

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).

Harvard High Performance Computing

Cambridge, MA

SOFTWARE ENGINEER INTERN

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).

Honors & Awards

2020 **McGill Faculty of Science Scholarship,**
2019 **McGill Major Renewable Entrance Scholarship,**
2018 **Harvard Book Award,**

Montreal, QC

Montreal, QC

Bethesda, MD

Education

McGill (CGPA 3.97)

Montreal, QC

B.S. IN HONORS COMPUTER SCIENCE AND MATH. LIST OF [COURSEWORK](#)

Aug. 2019 - Apr. 2022