Cole **Killian**

SOFTWARE ARCHITECT · FULLSTACK DEVELOPER

Cambridge, MA

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Software Skills

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

Selected Experience (**See All**)

Cisco   *Remote - Bay Area*

SOFTWARE ENGINEER INTERN   *May. 2021 - Sept. 2021*

- Earned **intern of the month** for his positive team-player attitude, leadership skills, and outstanding performance.
- Designed, built, and deployed an internal dashboard for accessing split feature flags that removed confusion surrounding feature flags and became a part of the Cisco CX Cloud team's **daily workflow**. (Angular, Split, Express, AWS, Circle CI).
- Configured OpenAPI Generator to generate api clients that saves frontend engineers **time and energy** when interacting with backend apis.

Study Together   *Remote*

TECH LEAD   *Jan. 2021 - May. 2021*

- Study Together is offering focused study sessions to the largest student community on Discord.
- Coded the api for interacting with user profiles and statistics data (Quart, SQLAlchemy, Aioredis, Discord.py).
- Built the dashboard used by **500,000** users for checking their study statistics (React, Material UI).

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 - December. 2020*

- 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).
- Built the user interface. Visit the business at https://artif.ai. To date there have been over **7000** artifaications (React).
- Turned down acquisition offers and went open source.

NeuroTech   *Montreal, QC*

SOFTWARE ENGINEER   *Feb. 2020 - Aug. 2020*

- 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).

Honors & Awards

2020-21   **Cisco Intern of the Month, McGill Wing Hing Chan Scholarship, McGill Faculty of Science Scholarship**,   *Montreal, QC*
2019   **McGill Major Renewable Entrance Scholarship**,   *Montreal, QC*
2018   **Harvard Book Award**,   *Bethesda, MD*

Education

McGill (CGPA 3.97)   *Montreal, QC*

B.S. IN HONORS COMPUTER SCIENCE AND MATH. LIST OF COURSEWORK   *Aug. 2019 - Apr. 2023*