

David McNamee

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EDUCATION

Candidate for University of Waterloo Computer Science (BCS) & Wilfrid Laurier University Business Administration (BBA) Double Degree *Sep. 2018 - Aug. 2023*

- Expected Graduation: August 2023
- Project Lead/mentor for UW Coffee N' Code; taught React Native to a group of 60 students.
- Finalist for the McGill International Portfolio Challenge; top 25 of 108 teams worldwide
- SHAD Valley Waterloo '17 alumnus; an enrichment program for top Canadian students in STEM

Programming Languages & Technologies

- C++, Python, JavaScript, Java, Go, C#, Rust, PHP, Kotlin, Swift, Haskell
- Kubernetes, Bazel, Tensorflow, Pytorch, Android, iOS, UWP, .NET, Docker, Spring

WORK EXPERIENCE

Wish, Software Engineering Intern (Winter 2021) *Jan. 2021 - Apr. 2021*

Lazer Technologies, Full Stack Engineering Intern *Jan. 2020 - Nov. 2020*

- Engineered a platform for car dealerships to sell insurance or protection products to customers using NodeJS, React, AWS (Fargate, SES, S3).
- Early contributor to RBC's Canada United web app for promoting local businesses during the pandemic. Created initial setup of backend API, as well as data fetching framework on frontend using Typescript, Next.js, GCP.
- Created a Shopify app prototype for an analytics company to help small-businesses retain existing customers, using various Shopify APIs, PostgreSQL, Heroku.

Snaptravel, Backend Software Engineering Intern *May 2019 - Aug. 2019*

- Built new booking and search microservices for connecting to new suppliers, which cut connection building time from 3 weeks to 3 days and reduced platform costs by 20%.
- Deployed production-grade backend code to maintain existing backend systems.
- Used Python, Flask, PostgreSQL, Redis, SQLAlchemy, AWS (EBS, RDS, Lambda, Cloudwatch).

Watfly, Student Controls Engineer *Sep. 2018 - Apr. 2019*

- Advanced both the experimental control system design and calibration, optimizing for speed and energy efficiency.

SIDE PROJECTS

- [Copysmith](#) – Platform for marketers to instantly generate potential advertisement text for Google/Facebook advertising campaigns. #5 Product-of-the-Week on Product Hunt. Used OpenAI's GPT-3 model for text generation, Create-React-App, Firebase, Auth0.
- [Peruse](#) – Chrome extension that helps you track sales for your favorite clothing brands like Aritzia, Lululemon, or LaCoste. Uses GCP Cloud Functions, Chrome API, Puppeteer for web-scraping.
- [Christine's Masks](#) – Site to display custom-made face masks that were offered for free at the beginning of the pandemic. Proceeds go to the Tsung Tsin cultural association. Used Netlify-CMS, Gatsby.
- [Money Map](#) – Web app that uses TD DaVinci API to map bank transaction density across a city.
- [Nutt-Shell](#) – Program that uses GCP services to summarize large text blocks with just a picture.