

# MATHIEU DUFOUR

SOFTWARE ENGINEER



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## EDUCATION

### McGill University, 2018-2021

Software Engineering, GPA: 3.7/4.0

Minor in Entrepreneurship

### Natural Language Processing Specialization

Coursera, 2021-Present:

Done: Classification & Vector Spaces

In progress: Probabilistic Models

Next: Sequence and Attention Models

## TECHNICAL SKILLS

- JavaScript/TypeScript
- React (JS / TS, w/ Redux)
- Node.js (JS / TS)
- Google Cloud Platform (Firestore, Firebase Auth, Cloud Run, Hosting)
- Python
- Java
- PostgreSQL (w/ Liquibase)
- Git, GitHub, GitLab

## LANGUAGES

- English (fluent)
- French (native)
- Spanish (Intermediate)

## SUMMARY

👋 I'm a software engineer with 2+ years of experience designing, developing and maintaining user-focused software. Most of my experience is in full-stack web development, with personal pursuits in machine learning and natural language processing. I'm seeking new challenges and growth opportunities.

## PROFESSIONAL EXPERIENCE

### Full-Stack Engineer, WFHomie

August 2021-Present

React Node.js TypeScript GCP PostgreSQL Liquibase Jest Testing

- Owned the front end of WFHomie's Analytics platform, using Airbnb's visx charting library for data visualization.
- Developed RESTful APIs in a Node.js (Express) server, serving data to the front-end based on dynamic user input.
- Led the technical implementation of WFHomie eNPS, from designing its microservice architecture, to implementing, deploying and testing it.
- Developed WFHomie Kudos, a Slack app installed by over 100 companies, with no significant bugs reports from the 500+ monthly users.
- Gained experience working full-remotely and asynchronously with developers on an 8-hour time zone difference.

### Software Developer Intern (Full-Stack), Coveo

May-August 2021

React TypeScript Redux Scala .NET (C#) Terraform Jest Testing

- Member of the Coveo for Workplace R&D team, responsible for the Digital Workplace line of products and Coveo connectors.
- Implemented a point-and-click interface that improves the user experience of a crucial part of the Coveo platform, used by end users on a regular basis.
- Maintained, developed features and wrote automated tests for microservices written in C#, Scala and Go.
- Participated in Agile ceremonies including sprint planning and retrospectives.

### Software Developer Intern, WFHomie

January-April 2021

React Redux Node.js JavaScript Google Cloud Platform Stripe API

- Designed, implemented, and maintained features on the WFHomie platform, often working on tight deadlines to prepare features for clients.
- Implemented a booking system using the Stripe API
- Designed and implemented an authentication and access control system.
- Fully design and implemented a Slack bot that manages user interactions.

### Programmer Analyst Intern, CGI Inc.

May-August 2019

C# .NET PowerShell

- Developed a desktop application to automate the migration of mailboxes from on-premise Exchange servers to Office 365.
- Wrote PowerShell scripts to automate tedious tasks executed by technicians.