

# Mathieu Lemay

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Montréal, QC

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## Relevant Experience

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### **Rogue Consulting**, Software Development Consultant

Aug. 2023 to present

- Offering services such as designing and developing features, optimization, TDD coaching, CI/CD optimization.
- Helped a customer switch from Bitbucket + Bitbucket Pipelines to GitHub + CircleCI.
- Helped a customer move a legacy API to Docker + Kubernetes.
- Helped a customer improve their monitoring in Datadog by adding correlation in the logs and streamlining the logging across multiple applications.
- Technologies used: Python, pytest, CircleCI, Bitbucket Pipelines, Datadog, AWS, Docker, Kubernetes, Helm

### **BoostSecurity.io**, Senior Software Developer

May 2022 to Aug. 2023

- Designed and implemented multiple microservices for the highly distributed BoostSecurity.io platform.
- Implemented a managed system to provision and run security scanners in our customers' different CI systems (Azure Devops, Bitbucket Pipelines, GitHub Actions, GitLab CI/CD).
- Enforced good code practices to ensure the maintainability and testability of our software.
- Acted as squad leader for one of the two backend development teams.
- Mentored a junior developer in the team.
- Technologies used: Python, FastAPI, pytest, MySQL, Kafka, AWS, Kubernetes, Helm, Terraform, Auth0

### **Broadsign**, Staff Software Developer

Dec. 2017 to May 2022

- Optimized the computation of a key cache by rewriting it in Rust, reducing the computation time by around 95% the number of cores needed for the database server by about 75%.
- Developed an algorithm to rebalance hundreds of advertising campaigns over thousands of screens in order to optimize their number of views.
- Moved two major projects from manually maintained virtual machines to a Kubernetes cluster.
- Improved continuous delivery of the software, reducing lead times for changes from multiple days to a few hours.
- Helped the team adopt better coding practices and test driven development.
- Technologies used: Python, Rust, Flask, PostgreSQL, Docker, AWS, Kubernetes, Helm, Bitbucket Pipelines

### **PBSC Urban Solutions**, Senior Java Developer

Nov. 2016 to Dec. 2017

- Development of the backend software to manage bike sharing systems and setting up continuous integration.
- Helped migrating a legacy JSP application to a REST API.
- Maintained Jenkins CI pipelines for multiple projects.
- Technologies used: Java, JUnit, Spring, Maven, Docker, MySQL, Elasticsearch and Jenkins

## Previous Experience

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**GEE Media**, Software Developer

June 2011 to Nov. 2016

**Biblio Mondo**, Software Developer

Aug. 2009 to June 2011

## Education

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**Cégep du Vieux Montréal**, Computer Science Technology

2006 to 2009

## Projects

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**pipeline-runner** [↗](#): A python tool to run Bitbucket Pipelines locally. Developed by reverse-engineering Bitbucket Pipelines inner workings.

**f1-telemetry-rs** [↗](#): A rust Library/GUI to parse telemetry data from the F1 games and display it.

**json-struct** [↗](#): A rust tool to show all the paths/values in a json/yaml document to help with grep.

## Technologies

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**Languages:** Python, Bash, Rust, SQL, Java, C#

**Frameworks / Platforms:** FastAPI, Flask, SQLAlchemy, Celery, Faust, PostgreSQL, MySQL

**Tools:** Git, Docker, AWS, Kubernetes, Datadog, Kafka, Terraform, Linux, CI/CD, TDD

## Languages

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**French:** Native

**English:** Fluent