

# Jérémy Lalonde

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## EDUCATION

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### Bachelor of Software Engineering

*École de technologie supérieure, Montreal*

GPA. 3,97/4,3

*Fall 2019 – Fall 2022*

### Technological Academic Path - Computer Science Specialization

*École de technologie supérieure, Montreal*

GPA. 4,03/4,3

*Fall 2018 – Fall 2019*

## PROFESSIONAL EXPERIENCES

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### iOS Developer (Internship)

*Genetec, Montreal*

*Summer 2022 - Fall 2022*

- Analyzed, designed and developed of a functionality to select and change the active account of a video surveillance application
- Redesigned the visual of the login experience in SwiftUI
- Developed a weather application to learn iOS SOLID architecture and state machine patterns with UIKit and SwiftUI

### Fullstack Developer (Internship)

*GSoft, Montreal*

*Fall 2021 - Winter 2022*

- Developed dashboards displaying event history by leveraging event sourcing in TypeScript and C#
- Investigated, designed and implemented a mechanism to export the activity flow of Microsoft tenants
- Designed and implemented an alert mechanisms with the Microsoft Team's chatbot

### Python Developer

*RE-AK Technologies, Montreal*

*Winter 2021 - Summer 2021*

- Designed and developed an OSC communication module
- Integrated the Vizia kit with Docker to improve its portability
- Adapted an emotional data collection daemon for an interactive film project in Python
- Developed a communication mechanism via websockets to send emotions to a custom dashboard for real time visualization

### System Test Developer (Internship)

*Analogic Corporation, Saint-Laurent*

*Fall 2020 - Winter 2021*

- Designed and developed a tool to test the synchronization of X-ray detectors in Python
- Created a verification and validation process for the application with Jira and Zephyr
- Set up a release pipeline for CI/CD with Atlassian's Bamboo
- Implemented a function in the detector's API to allow management and recovery of raw images in C++

### E-commerce Developer, Fullstack (Internship / part-time)

*Décathlon Canada, Brossard*

*Summer 2019 - Summer 2020*

- Created a Prestashop module to integrate cross-selling in the website
- Participated in the UI overhaul of the website with JavaScript, Smarty and Sass

## PROJETS

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### **Brosse - Mobile application** | *Flutter - FlutterFire Stack*

*Spring 2020 – Now*

- Designed and developed an entire mobile application to animate your evenings with your friends
- Put in production on the Google Play Store
- Deployed a public beta version for iOS with Testflight
- Collected data with Firebase for performance analysis, crashes and user behavior
- Linked a Cloud Firestore database for real-time content management
- Implemented an API for question suggestions with Google Apps Script
- Created mockups on Figma for the UI

### **Ornithopter - End of year collaborative project**

*Fall 2018 – Fall 2019*

- Developed a printed circuit for the manufacturing of a remote control
- Developed a communication mechanism to control the ornithopter via a wireless remote
- Designed a complete 3D model of the ornithopter
- Created all of the parts using 3D printers, laser cutters and machining machines
- Collaborated with members of other engineering programs
- Participated in a final competition evaluating each team on design, maneuverability, and flight height and accuracy

## AWARDS AND RECOGNITION

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### **Minister of Higher Education Excellence Scholarships**

*Winter 2021*

- Amount of \$1000 awarded to students who present a quality academic record through the Government of Quebec's Scholarships for Excellence in Computer Science, Computer Engineering and Electrical, Electronic and Communications Engineering program

## TECHNICAL SKILLS

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**Languages :** Swift, C#, TypeScript, Dart, Python, Java, C/C++, SQL, PHP, JavaScript, HTML, CSS

**Frameworks :** SwiftUI, Combine, RxSwift, .NET, React, Redux, Node.js, EventStore, Flutter

**Development tools :** Xcode, Git, VSCode, Firebase, Docker, Jira, Confluence, Azure DevOps

**Methodology :** Agile, Kanban, Design sprint, Scrum

## INTERESTS

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**Sports :** Skydiving (License A), competitive ice hockey since the age of 5, golf, snowboarding, hiking, camping.

**Traveling :** 2 month trip around Canada in a minivan. One month cultural immersion trip in Ecuador, three weeks backpacking trip in Peru.