

Marco Guida

Software Developer

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Skills

- Mobile App Development
- Algorithms and Data Structures
- Software Design
- Full-Stack Development
- JavaScript
- Unified Modeling Language (UML)
- Node.js
- Java
- C#
- React Native
- Xamarin Products
- C
- Version Control
- Cloud - Firebase, DigitalOcean
- Sketch
- Linux, macOS, Windows

Work experience

Founder and Lead Developer

Feb. 2019 - Sep. 2019

JOYLEAF

- Joyleaf is a cannabis strain finder app available on the [App Store](#) and [Google Play Store](#) that lets consumers discover over 2,000 unique marijuana strains from around the world and instantly find cannabis strains personalized to a consumer's interests.
- Used Xamarin Forms, a cross-platform mobile app framework, to deliver a smooth, native, front-end experience for both iOS and Android, with a C#-shared codebase to boost development workflow.
- Led a team of 3 other incredible people, who primarily worked on development of the Joyleaf website and algorithm design for our back-end cloud functions.
- Developed the back-end with Firebase and Node.js to authenticate users, store app data, and host cloud functions (RESTful API).
- Used Sketch and Photoshop to design all the visual components, including the app icon, splash screens, promotional media, and all the glyphs in the app.

Mobile App Developer Intern

Jul. 2019 - Aug. 2019

MG2 MEDIA, INC.

- Developed the PMI Chapter Event Scanner app available on the [App Store](#) and [Google Play Store](#) from start to finish for Project Management Institute (PMI), a global client of MG2 Media. The app enables PMI event hosts to seamlessly check-in guests with a QR code scanner and is used every day spanning 40 locations across North America from Montreal to Hawaii.
- Used React Native, a mobile app framework, to develop the entire front-end of the app for both iOS and Android, including working with back-end teams to enable communications with a server via a RESTful API.
- Engaged in Agile development practices.

Student

May 2018 - Aug. 2018

BOMBARDIER, INC.

- Developed the high-level logic for Bombardier's Autonomous Distress Tracking function that determines whether a Bombardier aircraft is in distress according to aircraft flight parameters.
- Led meetings with specialists to obtain expert advice on Bombardier models and aircraft systems in order to optimize the logic.
- Tested the logic on past accident data to assess the accuracy of the logic, and documented my findings.
- Presented the logic and test results to management.
- Wrote audit reports for the Electronic Equipment Design Assurance team.
- Ensured the completeness of work done by partners of Bombardier.

Student

May 2017 - Sep. 2017

BOMBARDIER, INC.

- Developed a Python program that efficiently extracted metadata for over 2,500 Bombardier documents.
- Migrated the documents to Bombardier's SharePoint repository, using the metadata that the program extracted to populate the search criteria.
- Wrote a complete manual for the program.
- Presented my work to management to address the results and scalability potential of the program across Bombardier.
- Organized the Electronic Equipment Design Assurance team's file system.

Education

B.S. Computer Science

2017 - Present

McGill University

3.47 GPA

D.E.C. Pure and Applied Science

2015 - 2017

John Abbott College

Projects

- Developed a Pentago-Swap (variation of the Pentago board game) game playing AI that uses Monte Carlo Tree Search to statistically pick the best move for the AI to play. The AI agent is written in Java and uses a mix of strategies depending on the phase of the game (e.g. early open board). It always beats me.

Interests

- Mobile app development
- Involved in the cryptocurrency space for over 4 years as both a developer and investor
- Technical analyst of financial markets, including stocks and futures markets
- Virtual and augmented reality (VR/AR) enthusiast
- Watching pro sports, including basketball, hockey, and soccer

References

The following references are also available on my [LinkedIn Page](#)

Julien Bonté, Mobile Developer at MG2 Media:

"Marco did an internship at MG2 Media and I had the opportunity to coach him.

During his internship, he showed great autonomy and allowed us to achieve our goals with ease. He took the time to find solutions himself and formed a list of specific questions that he came to ask at the right time to allow him to continue to work.

In a month, with little knowledge of React, he developed an Android and iOS mobile application in React Native. Marco was in charge of developing after receiving the designs and specifications of the project.

Of a discreet nature, Marco easily integrated our team. We greatly appreciated working with him and wish him much success in his future projects."

Nadine Beaugé, Senior Engineering Leader:

"I had the pleasure to have Marco on my team, as a student, two years in a row. He is a dedicated, proactive employee, continuously looking for learning and development opportunities. Very creative and technically competent, he contributed positively to his assigned projects, way beyond our expectations and the assigned scope of work. He will be a very good asset to any future employer."

André Gauthier, Principal Avionics Engineer at Bombardier:

"I am the avionics knowledge owner at Bombardier and my job includes documenting and classify knowledge at Bombardier, as well as promote its reuse. I have worked with Marco over the course of two summers (2017 and 2018) while he was a summer student at Bombardier Product Development Engineering organization."

I had previously defined the projects he was going to work on and when he was hired, supervised his execution of the projects.

The two projects were:

- 1. Find a way to efficiently classify and tag with key words, thousands of legacy engineering memos written over the last 20-30 years and often scanned in TIF format. Then migrate to the Sharepoint-based knowledge sharing/repository platform used at Bombardier.*
- 2. In the context of the new ICAO rules for Autonomous Distress Tracking, Bombardier and other OEM need to detect when the aircraft is in distress prior to a crash, and upon detection, transmit signals that allow location of the crash site. Marco's project was to analyze known accident scenarios and develop robust logic to trigger such transmission on future aircraft.*

I could not have asked for a better summer student for these tasks. Marco executed these projects with attention to detail, and delivered on time what was expected, and then some. All this with minimal supervision and sometimes with less than optimally clear instructions. I found Marco to be professional, courteous, and working well in a team with colleagues.

I highly recommend Marco for any assignment in the engineering or IT job related to his expertise."