

SAMUEL CABRAL CRUZ

B. Eng. Software Engineering, B. Sc. Actuarial Science

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INTJ-T

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EXPERIENCE

Senior Software Developer I TM1 Core Platform

Ticketmaster

August 2023 – Present

Quebec, CA

- Develop and maintain a **micro-UI integration platform**
 - Refactor dependencies injection flow
- Develop and maintain tools to **increase** development teams **productivity** and eliminate road blocks in their processes
 - Feature flag service
 - UI provisioning with k8s CRDs
 - Pulumi configuration resolution library
- Drive the **adoption** of **cutting-edge technologies**
- Support ~150 developers** across multiple development teams to facilitate their integration with the platform and the tools
- Influence** development teams **designs and architectural decisions**
- Monitor provided services** usage and adoption
- Define coding standards** for development teams
- Document and communicate **development good practices**
- Participate to **on-call support** for all **development and production environments**



Software Developer

Ingenio

June 2020 – August 2023

Quebec, CA

- Contribute to various **development projects**:
 - Marketing analytics application for an event management platform
 - POSS integration facade for an online food ordering and delivery platform
 - Smart objects life cycle management platform
 - Commercial and residential condos building service management platform
 - Surgeries scheduling optimization UI
- Core domain of an advertisement placement optimization company
- Produce **technical audits**
- Manage **client interactions**
- Create and maintain **templates** to simplify **project configuration**
- Supervise students** in their bachelor project
- Participate to **recruiting process**



Software Developer

DashThis

May 2019 – June 2020

Quebec, CA

- Maintain a **dashboard creation platform** to track performance of **online advertising campaigns**
- Participate to **product design workshops**
- Ensure **quality of weekly releases (Manual Testing)**
- Instrument the application to **analyze users' behavior**
- Manage the integration of **different code base versions inside the same monolith**
- Refactor **legacy code** when needed



Software Developer - Intern

XpertSea

January 2019 – May 2019

Quebec, CA

- Refactor business' **administration platform**
- Occasionally modify the **Python backend**
- Migrate **functionalities** from **ember.js application** to **Polymer (Web Components + Shadow DOM)**



Actuarial Analyst

Property Ratemaking

Desjardins General Insurance Group (DGIG)

May 2013 – December 2017

Quebec, CA



- Contribute to the integration of State Farm's Canadian book of business
- Create a **conversion solution's KPIs monitoring dashboard (EXCEL/VBA)**
- Establish 2017 **Budget's assumptions**
- Write scripts** to identify, extract, produce and validate the information contained in the pricing system
- Review various **segmentation and pricing models**
- Bulk extraction** from indemnification agent notes using **NLP approaches**
- Redesign the **data extraction pipeline** used to create fraud models
- Create a **SAS scripts** documentation generator using **XSD, XML and XSL**



EDUCATION



Laval University

Bachelor's Degree in Software Engineering

-  January 2017 – May 2020
-  Quebec, CA
- Minors: International and Distinction
 - GPA: 4.22/4.33



Norwegian University of Science and Technology (NTNU)

Master's Degree in Computer Science

-  January 2018 – June 2018
-  Trondheim, NO
- Student exchange program

Laval University

Bachelor's Degree in Actuarial Science

-  September 2012 – May 2015
-  Quebec, CA
- GPA: 3.96/4.33

ACHIEVEMENTS



Certifications

AWS Certified Developer – Associate	2023
Site Reliability Engineering Foundation	2023
DevOps Foundation	2023
Professional Scrum Product Owner™ I	2023
Professional Scrum with Kanban™ I	2023
Professional Scrum Developer™ I	2023
Professional Scrum Master™ I	2023
AWS Certified Cloud Practitioner	2021



Professional Exams

CAS CP - Course on Professionalism	2016
CAS 5 - Ratemaking and Claim Liabilities	2015
CAS C2 - Accounting, Law, and Regulation	2015
CAS ST - Stochastic Processes	2014
CAS LC - Life Contingencies	2014
CAS C1 - Risk Management	2014
CAS 4 - Actuarial Models	2014
CAS 3F - Financial Economics	2013
CAS 2 - Financial Mathematics	2013
CAS 1 - Probability	2013



Scholarships

Desjardins Excellence Scholarship	2018
Laval University Admission Scholarship	2011



Competitions

Truncated Claim Amounts Extrapolation	2015
1st Place - Desjardins General Insurances Group	
Asset-Liability Matching Optimization	2015
1st Place - SSQ Financial Group	

PROJECTS

Going |

2024

```
/**
 * Go Libraries mono-repository leveraging
 * generics to offer multiple common utilities
 */
tags = ["Dependency Injection", "Mocks",
"Tests utilities", "Error Handling",
"Expectations Builder"]
```

Commit Bucket Deploy (CBD) |

2021

```
/**
 * GitHub Action to deploy static websites
 * within pull requests' life cycle
 */
tags = ["GitHub Actions", "Bash/Shell",
"AWS CDK", "TypeScript", "UI", "Static Website",
"Pull Requests", "Code Reviews"]
```

Free Code Coverage | |

2021

```
/**
 * About GitHub Action to enforce code
 * coverage maintenance on pull requests
 */
tags = ["GitHub Actions", "Bash/Shell",
"Code Coverage", "Pull Requests",
"Code Reviews"]
```

Unresolved Review Threads | |

2021

```
/**
 * GitHub Action to block pull requests with
 * unresolved review threads
 */
tags = ["GitHub Actions", "TypeScript", "Jest",
"Pull Requests", "Code Reviews"]
```

RaftmanCG |

2019

```
/**
 * University Projects Delivery Platform
 * Features:
 * - Project Statements Publication
 * - Delivery Management
 * - Feedback on Delivery
 * - Correction Automation
 * - Team Management
 * - Deliveries Archive
 * - Reviews/Results Publication
 */
tags = ["Ruby on Rails", "Active Record",
"RSpec", "minitest", "Rake", "Docker",
"Digital Ocean"]
```

STRENGTHS

- Autodidact
 - Business Awareness
 - Disciplined
- Negotiation
 - Organization
 - Fast Learner
 - Persuasive
- Problem Solving
 - Tenacious
 - Hard-Working