

SAMUEL CABRAL CRUZ

Candidate to the Engineering Profession (CEP), B. Eng. Software Engineering, B. Sc. Actuarial Science

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📍 Quebec, Canada

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EXPERIENCE

Software Developer

Ingeno

📅 June 2018 – Present

📍 Quebec, CA

- Contribute to various **development projects**:
 - Big data exposition service for an event management platform
 - POSs integration facade for an online food ordering and delivery platform
 - Platform for smart objects life cycle management
 - Platform for condos building restauration service management
 - User interface for the surgeries scheduling optimization
- Core domain of an advertising placement optimization company
- Produce **technical audits**
- Manage **client interactions**
- Create and maintain **templates** to simplify **project boilerplating**
- **Supervise students** in their bachelor project
- Participate to **recruiting process**



Course Assistant - GLO-4002 Software Quality and Metrics

Laval University

📅 May 2019 – Present

📍 Quebec, CA

- Original Contributor of **RaftmanCG**
- Correct **semester projects**
- Correct **exams**
- Produce **educational content**
- Answer **students' questions**



Course Assistant - GLO-2003 Introduction to Software Engineering Processes

Laval University

📅 Jan. 2020 – May 2020

📍 Quebec, CA

- Prepare and animate **lab sessions**
- Prepare and correct **quizzes**
- Correct **semester projects**
- Write **Karate/Cucumber tests suites**
- Answer **students' questions**



EDUCATION

Laval University

Bachelor's Degree in Software Engineering

📅 Jan. 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

📅 Jan. 2018 – June 2018

📍 Trondheim, NO

- Student exchange program

Laval University

Bachelor's Degree in Actuarial Science

📅 Sept. 2012 – May 2015

📍 Quebec, CA

- **GPA**: 3.96/4.33

PROJECTS

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"]
```

Unsolved Review Threads | 📄 | 🛒

2021

/**

- * GitHub Action to block pull requests with
- * unresolved review threads

*/

```
tags = ["GitHub Actions", "TypeScript", "Jest", "Pull Requests", "Code Reviews"]
```

Sensei | 📄 | 🛒

2020

/**

- * University projects correction tool
- * **Features**:
 - * – Static report generation for student
 - * consultation

Software Developer

DashThis

May 2019 – May 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

Jan. 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)**



Database Analyst

Research and Development

Desjardins General Insurance Group (DGIG)

May 2017 – Dec. 2017

Quebec, CA

- Bulk extraction from indemnization 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**



Actuarial Analyst

Property Ratemaking

Desjardins General Insurance Group (DGIG)

May 2013 – Dec 2016

Quebec, CA

- Create a **conversion solution's KPIs monitoring dashboard (EXCEL/VBA)**
- Establish **2017 Budget's assumptions**
- Contribute to the integration of **State Farm's Canadian book of business**
- Write **different scripts** to identify, extract, produce and validate the information contained in the pricing system
- Review various **segmentation and pricing models**



```
* - Multi-language/paradigm support
* - Code Highlighting
* - Preset Comments
*/
```

```
tags = ["JetBrains Plugin", "Kotlin", "IDE",
"HTLM5", "CSS3", "Code Reviews", "Educational"]
```

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"]
```

Bombhunt | 🌐

2018

```
/**
 * University Project (TDT-4240)
 * Remake of the famous Bomberman game
 */
```

```
tags = ["Java", "Android", "LibGDX", "ECS"]
```

Web Security Lab | 🌐

2018

```
/**
 * University Project (TTM-4135)
 * Securing unprotected PHP application
 */
```

```
tags = ["PHP", "Apache", "2FA", "PWD Storage",
"TLS", "Recognized Devices", "Email Alerts"]
```

R Markdown Template | 🌐

2018

```
/**
 * R Markdown Scientific Paper Redaction
 */
```

```
tags = ["R Markdown", "LaTeX", "BibTeX", "CSL"]
```

Jukebox | 🌐

2017

```
/**
 * University Project (GLO-2004)
 * Learn to play music using digital instruments
 */
```

```
tags = ["Java", "Swing", "MIDI", "UP"]
```

RaQ 2017 | 🌐 | 🌐

2017

```
/**
 * R Introduction Workshop using OpenFlight
 * (RaQ 2017)
 */
```

```
tags = ["R", "Leaflet", "SIG", "Stats"]
```

Assignment Template | 🌐

2017

```
/**
 * University Assignments ML Template
 */
```

```
tags = ["LaTeX", "GLO", "ULAAVAL", "NTNU"]
```

PUBLICATIONS

Cabral Cruz, S., *Free Code Coverage*, 2021,
<https://samuelcabralcruz.medium.com/free-code-coverage-3eb05abddfd2>.

Cabral Cruz, S., *Website Preview Home Brew*, 2021,
<https://samuelcabralcruz.medium.com/website-preview-home-brew-df53827b98e7>.

Cabral Cruz, S., *GitHub Actions Workflow Reusability*, 2021,
<https://samuelcabralcruz.medium.com/github-actions-workflow-reusability-965a5c26df1d>.

Cabral Cruz, S., *Migrating from CircleCI to GitHub Actions*, 2021, <https://samuelcabralcruz.medium.com/migrating-from-circleci-to-github-actions-eb92fcce3e10>.

Cabral Cruz, S., *Unresolved Review Threads*, 2021,
<https://samuelcabralcruz.medium.com/unresolved-review-threads-5c53a200e8eb>.

Cabral Cruz, S., *Analyse de marché du transport aérien canadien avec R*, 2017,
<https://github.com/vigou3/raquebec-atelier-introduction-r/blob/master/caseStudy/statement/LaTeX/OpenFlightsCaseStudy.pdf>.

ACHIEVEMENTS



Certifications

AWS Certified Cloud Practitioner 2021



Scholarships

Desjardins Excellence Scholarship 2018
Laval University Admission Scholarship 2011



Competitions

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

STRENGTHS

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

READINGS

Martin, R., *Clean architecture : a craftsman's guide to software structure and design*, Prentice Hall, London, England, 2018.

Wlaschin, S., *Domain modeling made functional : tackle software complexity with domain-driven design and F*, Pragmatic Bookshelf, Raleigh, North Carolina, 2018.

Brandolini, A., *Introducing EventStorming*, 2015.

Newman, S., *Building microservices : designing fine-grained systems*, O'Reilly Media, Sebastopol, CA, 2015.

Whittaker, J., *How Google tests software*, Addison-Wesley, Upper Saddle River, NJ, 2012.

Vernon, V., *Implementing domain-driven design*, Addison-Wesley Professional, Place of publication not identified, 2012.

Martin, R., *The clean coder : a code of conduct for professional programmers*, Prentice Hall, Upper Saddle River, NJ, 2011.

Freeman, S., *Growing object-oriented software, guided by tests*, Addison Wesley, Upper Saddle River, NJ, 2010.

Martin, R., *Clean code : a handbook of agile software craftsmanship*, Prentice Hall, Upper Saddle River, NJ, 2009.

Evans, E., *Domain-driven design : tackling complexity in the heart of software*, Addison-Wesley, Boston, 2004.

Hunt, A., *Pragmatic unit testing : in Java with JUnit*, Pragmatic Bookshelf, Raleigh, N.C, 2004.

Hunt, A., *The pragmatic programmer : from journeyman to master*, Addison-Wesley, Reading, Mass, 2000.

Gamma, E., *Design patterns : elements of reusable object-oriented software*, Addison-Wesley, Reading, Mass, 1995.

TECHNICAL SKILLS

