

# SAMUEL CABRAL CRUZ

Engineering Profession Candidate (EPC), B. Eng. Software Engineering, B. Sc. Actuarial Science

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INTJ-T

## EXPERIENCE

### Software Developer

#### Ingeno

June 2018 – Present

Quebec, CA

- Contribute to various **development projects**:
  - Web platform for condos building management
  - Expose an AI model for the surgeries scheduling optimization
  - Refactor the 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**



### 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



## 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

### Unresolved 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
 * - 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
```

## Course Assistant - GLO-2003 Introduction to Software Engineering Processes

### Laval University

Jan. 2020 – May 2020

Quebec, CA

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



## 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



\* - 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 ~~File~~X Template  
\*/

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

## 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

## PUBLICATIONS

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**Cabral Cruz, S.**, *GitHub Actions Workflow Reusability*, 3 2021, <https://samuelcabralcruz.medium.com/github-actions-workflow-reusability-965a5c26df1d>.

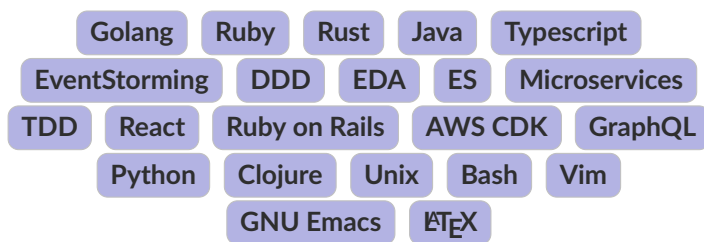
**Cabral Cruz, S.**, *Migrating from CircleCI to GitHub Actions*, 3 2021, <https://samuelcabralcruz.medium.com/migrating-from-circleci-to-github-actions-eb92fcce3e10>.

**Cabral Cruz, S.**, *Unresolved Review Threads*, 3 2021, <https://samuelcabralcruz.medium.com/unresolved-review-threads-5c53a200e8eb>.

**Cabral Cruz, S.**, *Analyse de marché du transport aérien canadien avec R*, 5 2017, <https://github.com/vigou3/raquebec-atelier-introduction-r/blob/master/caseStudy/statement/LaTeX/OpenFlightsCaseStudy.pdf>.

## TECHNICAL SKILLS

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## STRENGTHS

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

## READINGS

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**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*, 9 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.