

SAMUEL CABRAL CRUZ

Candidate to the Engineering Profession (CEP), 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~~ 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

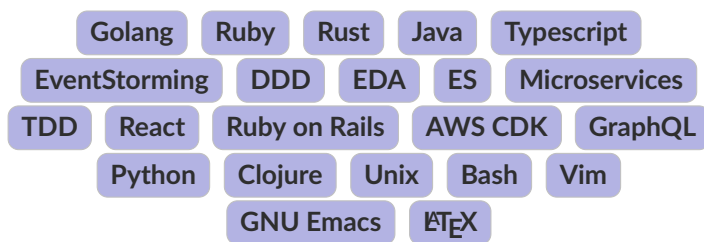
Cabral Cruz, S., *GitHub Actions Workflow Reusability*, 3 2021, <https://samuelcabralcruz.medium.com/github-actions-workflow-reusability-965a5c26df1d>.

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



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*, 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.