

# Pierrick Catalo

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## PROFILE

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Passionate about problem solving and software development. Computer Science BSc from Concordia University. More than 3 years of work experience as back-end developer, program analyst and software developer intern.

Fluent French and English, Intermediate Spanish

**Programming:** JavaScript/TypeScript, C#/.NET, Java, SQL, Python, HTML, CSS

**Technologies:** AWS, DevSecOps, Node.js, Docker, Angular, GitLab, CI/CD, SQL Server, Jira, Agile Scrum

Global mindset with experience abroad

## EXPERIENCE

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### Back-End Developer

June 2022 – May 2023

*Ubisoft Montreal, Online Services*

*Montreal, QC, Canada*

- Collaborated with a team to develop, operate, maintain and test an AWS pub-sub microservices notification system handling over a million notifications per minute for Online Services
- Optimised cost and performance by integrating new features into our node.js/Java services, and deploying additional AWS Lambdas and Step Functions
- Enhanced system efficiency by creating a JavaScript AWS MSK (Kafka) CDK Construct library, replacing Kinesis Data Streams and improving overall performance
- Streamlined incident management by building a library to route SNS CloudWatch Logs to MS Teams, facilitating efficient communication and response to system incidents
- Applied DevSecOps principles and successfully implemented Test Driven Development (TDD), while actively contributing to projects following Agile and Scrum methodologies

### Program Analyst

Aug 2020 – Apr 2022

*Randstad Canada, Business Control Team*

*Montreal, QC, Canada*

- Led the end-to-end data integration lifecycle for business analysts in the business control team, covering design, development, implementation, and ongoing support
- Developed C#/Python ETLs to integrate data from 10+ source applications, using diverse Open REST APIs and Selenium for web scraping
- Built a KPI tracker ensuring timely notifications to business analysts based on predefined conditions using C# and SQL Server
- Constructed and maintained Power BI and Looker Studio reports, delivering valuable insights for informed decision-making

### Software Developer Internship

Sept 2019 – Aug 2020

*Randstad Canada, Operation Team*

*Montreal, QC, Canada*

- Developed automation tools, adeptly translating complex business requirements into efficient technical solutions for cross-functional teams across the company
- Automated Google Workspace workflows using Google App Script (JavaScript) and Google's API
- Developed user-friendly C# utilities for streamlined data tasks involving Excel, Google Sheets, and SQL Server
- Built an Angular/ASP.NET Dashboard to monitor automations using TypeScript/C#

## PROJECTS

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### Wireless LED Controller ESP8266 | C/C++, MySQL, Embedded Systems, Electronics, IoT

- Control multiple WLED (Wireless LED) in local network using an ESP8266 and a 433MHz receiver module
- Implemented a MySQL database with PHP API endpoints on my local network to store WLED states

## EDUCATION

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### BSc Computer Science

Montreal, QC, Canada

*Concordia University*

*Sept 2018 – Apr 2022*

Web Programming, OOP (Java, C++), Data Structures and Algorithms, Operating Systems, Databases, Computer Networks, Distributed Systems, Artificial Intelligence, Machine Learning, Information System Security

### C Programming Bootcamp (Piscine)

Paris, France

*Ecole 42*

*Aug 2018*

4 weeks of intensive coding in C, P2P learning methodology, individual and group projects (Bash Script, Vim, Git)