

XAVIER DUPUIS

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SUMMARY

- Interest in researching possible software improvements
- Ability to analyze the needs and performance of systems
- Experienced in writing documentation / reports
- Hybrid team working experience (in-person and remotely)
- Professional attitude and self-motivated
- Strong English and French communication skills

EDUCATION

Software Engineer Undergraduate | Security and Mobility 2020 – 2023
Polytechnique Montréal
108 / 120 completed credits
GPA : 3.93 / 4
Academic Excellence

Natural Science College Diploma 2017 – 2019
Cégep régional de Lanaudière
Terrebonne

SOFTWARE, TECHNICAL AND COMPUTER SKILLS

Languages

JS / CSS / HTML	Python
Angular	C++
Typescript	SQL
C# / .NET	MongoDB
RxJS / NGXS	Java / Kotlin

Tools

Git / Pipelines	Windows / Linux
UML	Android
Jira	Electron
Makefiles	JetPack Compose
CI/CD	Socket.io
Virtual Machines	Docker & Compose

SOFTWARE ENGINEER EXPERIENCE

Software Engineer Intern – Genetec Inc. 2023
Continuity of the 2022 internship
Deepen technical knowledge (C# reflection, RESTful API, generic types, E2E testing, injection) and software process activities (code reviews, PRs, etc.)
Manage and implement medium to large scale features

PolyScrabble LOG3900 – Polytechnique Montréal 2022
Produce a response to a Request for Proposals with architectural diagrams, communications protocols and product prototype
Design a complete client-server architecture (Node.js, Express, Socket.io, MongoDB) for Mobile device (Android, Kotlin, JetPack Compose) and Desktop device (Electron, Angular, Typescript)
Perform project management, schedule meetings and agenda, track progress of tasks, schedule continuous integration and deployment
Ensure the different activities / disciplines of software development process

Software Engineer Intern – Genetec Inc. 2022
Analyze, segment and develop a feature of the software product
Synthesize and document the result of their process / work
Investigate, troubleshoot, and repair known (and unknown) software problems
Understand and appropriate business software development processes

Hackatown 2022 – Polytechnique Montréal 2022
Part-Winner of a 48-hour team programming competition (remote)
Create and design a concrete prototype to resolve a real-world issue
Develop a full stack application with Angular/Typescript/HTML/SCSS, Node.js, Mongo DB, etc.
Deploy to Amazon Web Services and Github

WEB Application project development – Polytechnique Montréal 2021
Complete the second-year integrator project: Scrabble online game
Design a WEB application with Angular, Typescript, HTML, SCSS
Implement Client – Server architecture with Node.js, Socket.io, REST API, Mongo DB, etc.
Ensure teamwork and continuous integration with Git and Gitlab

Hackatown 2021 – Polytechnique Montréal 2021
48-hour team programming competition (remote)
Detect diseased fruit plants from their leaves' visual aspect
Design a front-end web application with Angular (and HTML + CSS)
Implement an intelligent "Classifier" with Tensorflow.js

ReadyAiCode Competition – Polytechnique Montréal 2020
Finalist of a 24-hour team programming competition
Design and implement basic artificial intelligence
Adapt quickly to tools and new working methods
Communicate effectively between team members

WORK EXPERIENCE

Instructor / Executive assistant – Formation Samo, Repentigny 2021 –
Provide a learning experience to students on many topics (Windows, Word, Excel, Mathematics, etc.)
Manage, transmit and oversee courses documents
Ease exchanges and communications on the virtual course platform

Mathematics Tutor – Cégep de Lanaudière, Terrebonne 2018 – 2019
Plan helpful tutoring sessions through various exercises
Provide clear and simple explanations to the students