XAVIER DUPUIS

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SUMMARY

- Interest in researching 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
93 / 120 completed credits
GPA : 3.92 / 4
Academic Excellence

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

SOFTWARE, TECHNICAL AND COMPUTER SKILLS

Langages

JS / TypeScript	Python
HTML	C++
CSS / SCSS	SQL
Angular	MongoDB
RxJS / NGXS	Java / Kotlin

Outils

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

SOFTWARE ENGINEER EXPERIENCE

PolyScrabble LOG3900 – Polytechnique Montréal   2022
- Produce a response to a request for proposals with architectural diagrams, communications protocols and 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 activities, schedule meetings and agenda, track task progress, plan continuous integration and deployment
- Ensure the different activities/disciplines of software development

Software Engineering 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   2018 –
- Provide a learning experience to students on many topics (Windows Operating System, Word, Excel, Mathematics, etc.
- Translate lesson plans and reference manuals in English
- Repair, update and inventory computer stations

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