

Johann Sourou

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ABOUT ME

Student in Mathematics and Computer Science, passionate about programming, data analysis and their application to solve real-world problems. I am currently looking for opportunities to leverage my knowledge and improve my skills in computer science. I am a highly motivated individual and look forward to bringing my analytical perspective and contributing to exciting projects.

PROFESSIONAL EXPERIENCE

Café Sans Fil Gestion Mobile | *Agile Mobile Development (FENM Stack)* Summer 2024

- Developed a cross-platform mobile application (**Flutter**) for managing volunteers, inventory, and events at university cafés.
- Implemented the backend with **Express.js** and **Node.js**, integrated **MongoDB** for real-time data management.
- Utilized RESTful architecture for frontend-backend communications, managed asynchronous tasks with promises and API calls.
- Followed Agile methodologies with rapid iterations to refine features according to end-user needs.

PROGRAMMING PROJECTS

UniShop E-commerce Platform | *Software Engineering Project (IFT 2255)* Fall 2023

- Collaborated on a Java project to develop UniShop, an e-commerce platform.
- Responsible for **Java** implementation, JUnit unit testing, Maven configuration, and writing comprehensive documentation (JavaDocs and a README file).

Recreation of the Dobble Card Game | *Algorithms Course (IFT 2125)* Winter 2024

- Recreated the Dobble (Spot It!) card game based on finite projective planes in mathematics as part of a course project.
- Developed functionalities in **Python** for this game, including creating cards with random symbols, verifying game quality, and visualizing cards with image processing tools such as the **Pillow** library.

EDUCATION

University of Montreal September 2022 - April 2025

Bachelor of Science - Mathematics and Computer Science - GPA: 3.4 Montreal, Canada

- Courses: Operations Research, Programming, Software Engineering, Algorithms, Databases, Calculus, Probability, Linear Algebra, Discrete Mathematics.
- Excellence scholarships for graduates and professors of the DIRO.

TECHNICAL SKILLS, VOLUNTEERING & MISCELLANEOUS

Languages Spoken: French (Native), English

Programming Languages: Java, Python, R, C++, Dart

Libraries: Numpy, JavaFX, Turtle, Os, Pillow

Development Tools: Anaconda, Git, GitHub, IntelliJ, Linux, UML Diagrams, VS Code, Flutter

Web Technologies and Databases: HTML/CSS, JavaScript, SQL, MongoDB

Volunteering Experience: Volunteer at the Student Café at the University of Montreal