

Émilie Des Rosiers

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EDUCATION

Computer Engineering / Bachelor of Applied Science at University of Ottawa 2021– Current

- Relevant courses: Intro to Data Structures and Algorithms, Operating Systems, Intro to Software Eng, Programming Paradigms, Intro to Software Construction, Real-Time Systems, Computer Architecture, Digital Systems, etc.

SKILLS

- Programming Languages: Java, JavaScript, Python, C, VB.net, SQL, C#, HTML, CSS, Scheme, GO
- Software Applications: Google Workspace, MS Office 365, GitHub, VSCode, Unity, Android Studio, Anaconda
- Engineering Skills: Intel Quartus II Design Software, UML, advanced data structures, object-oriented programming, experience with networking & hardware, circuitry and hardware.

EXPERIENCE

Data and Technology Intern Jan 2024 – Aug 2024

Canada Revenue Agency

- Directed foundational performance evaluations using **SQL**-driven data analysis to assess a system's effectiveness, providing a basis for further development by other teams.
- Created a breakdown of a python-based data storage algorithm to promote joint functionality between teams.
- Performed detailed statistical analysis to uncover trends and recommend targeted improvements, laying the groundwork for subsequent phases of a broader initiative.
- Presented key findings to the Director, emphasizing critical metrics that shaped project strategy.
- Conducted research on data storage methodologies, delivering insights that informed executive decisions.

WIE IEEE UOttawa

Sep 2023- Apr 2024

Women In Engineering Treasurer

- Received all money and paid all debts of the Branch authorized by the Executive Committee.
- Maintained detailed financial reports, tracking all receipts, expenditures, and budget allocations.
- Completed a projected budget at the beginning of the term and final budget at the end of the term.
- Prepared an annual budget for inclusion in the Annual Activity Report.
- Contributed to organizing networking events connecting students with technology companies.
- Initiated contact with companies to secure financial support for various events.

Administrative Assistant

Jun 2017- Aug 2019

Mortgage Architects, TK Finance

- Maintained and updated client databases using **Microsoft Excel**, ensuring accurate record-keeping and efficient data management.
- Created engaging and informative business development presentations using **Microsoft Powerpoint**.
- Assisted in processing financial applications for mortgage processing.
- Organized and managed company records, streamlining document retrieval and administrative processes.

PROJECTS

WheelChair+ 2024 - Current

- Authored the report for WheelChair+, including technical documentation, system architecture diagrams, and project analysis to detail the design, implementation, and future considerations of the system.
- Utilized Java and Android Studio for app development, ensuring seamless user experience across devices.
- Collaborated with teammates to define system requirements, including battery efficiency, usability, and security, presented in group discussions.

Student Course Booking App

2022 - 2023

- Created a student course booking app where students, instructors and admins can interact with the interface
- Collaborated with teammates using **GitHub** and stored real-time user and course information in **Firestore**.

GPAid- <https://devpost.com/software/gpadvance>

2022 - 2023

- Developed a virtual campus platform that enables students to interact, collaborate, and communicate in a 2D game environment, simulating the experience of a physical study hall.