

# CHLOÉ DAULL

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📄 PGWP Canada - French Passport - Singapore PR

## Education

### Concordia University

- Bachelor in Computer Science, Minor in Economics

Sept 2021 - Dec 2024  
Montreal, QC

### International French School, Singapore

- French Baccalaureate - Specializing in Mathematics, Physics and Chemistry

Sept 2006 - June 2021  
Singapore

## Work Experience

### 369 TechLabs

June 2025 - Present

Software Developer

Montreal, QC

- Developed a user-facing application with **React**, **Node.js**, and **TypeScript**, implementing **20+ core features** including item tracking, data search, and real-time updates for a smart home device.
- Built and maintained **back-end APIs** in **Python** and **JavaScript** to synchronize records between external **MariaDB** and internal **OPFS databases**, using **Redux** to ensure real-time UI updates.
- Designed and implemented **MySQL** databases to manage information for **60+ tracked items**, creating efficient schemas and queries that improved data retrieval speed and supported real-time application features.
- Designed embedded software for a **microcontroller-based device**, integrating hardware and software to enable efficient device operation and persistent tracking of an expanding range of categorized objects.

### WSP Canada

Jan 2025 - May 2025

Software Programmer Intern

Laval, QC

- Developed in-house applications with **HTML/CSS** enhancements, improving usability for a department of **200+ employees**.
- Programmed and deployed a **Python**-based Excel processing pipeline on **Azure Functions**, containerized with **Docker** and automated via **Power Automate**, reducing manual processing time by **80%**.
- Built a PDF contract converter in **Python** using **PyPDF2** and **Pandas** to automate organization of **20,000+** client contracts, achieving a **70%** reduction in contract transfer time.

### Bombardier

May 2023 - Aug 2023

Smart Sales Intern

Montreal, QC

- Monitored and tracked customer aircraft flight hours and maintenance status.
- Developed an AI-integrated aircraft maintenance prediction model using **MS PowerApps** and **Power BI**, improving maintenance **forecasting accuracy by 40%**.
- Collaborated in a **team of 4 engineers**, managing cross-functional workflows, setting sprint goals, and conducting daily stand-ups to ensure timely project delivery.

### Airbus

June 2019 - July 2019

Hangar of the Future Intern

Singapore

- Introduced to the office work environment - Gained insight on how Airbus planes are taken care of while in hangars.
- Worked on the Hangar of the Future Project which had a mission of integrating AI into aircraft maintenance checks.

## Projects and Competitions

### Computer Vision Project

Python

- Implemented **homography estimation** using **RANSAC** and **Gaussian filtering** with **NumPy**, aligning and overlaying **10,000+** images.

### Journée Francophone des Femmes en Informatique

Java

- Strengthened cybersecurity skills by solving **cryptography**, **network security**, and **software vulnerability** challenges in a team-based competition.

### EngWeek Programming Competition

Java

- Built a city traversal simulation applying **BFS** and **Dijkstra's algorithms** to manage multi-car pathfinding in a graph-based road network.

## Technical Skills

**Programming** | Java, Python, C++, SQL, CSS, HTML, JavaScript, JSON, Node.js, React, TypeScript

**Framework & Tools** | MS Office, MySQL, Git/GitLab, Docker, VS Code, Linux, OpenCV, Power BI, Azure, NumPy

## Languages

**French** - Mother tongue

**English** - Native Proficiency

**Korean** - Conversational