CHLOÉ DAULL

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Education

Concordia University	Sept 2021 - Dec 2024
• *Bachelor in Computer Science, Minor in Economics*	Montreal, QC
International French School, Singapore	Sept 2006 - June 2021
• *French Baccalaureate - Specializing in Mathematics, Physics and Chemistry*	Singapore

Work Experience

369 TechLabs (Contract)	June 2025 - Oct 2025
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.
- Worked in an **Agile** environment using **Jira** for sprint planning, backlog management, and task tracking.

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.	
Research Assistant – Technologies and Applications of Advanced Database Systems	Java
• Participation in the project "The Case of Learned Index Structure," leveraging machine learning algorithms to improve index query performance using Bloom filters, B-Trees, and HashTables.	
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.	

Certification

AWS Cloud Practitioner Certificate (concepts such as AWS ECS, EC2, Lambda, S3…)	Nov 2025

Technical Skills

Programming | Java, Python, SQL, CSS, HTML, JavaScript, JSON, Node.js, React, TypeScript
Framework & Tools | MS Office, MySQL, Git/GitLab, Docker, Azure (IaC), VS Code, Linux, OpenCV, Power BI, NumPy

Languages

French - Mother tongue   *English* - Native Proficiency   *Korean* - Conversational

Hobbies

Long distance running – Marathoner

Rock climbing – 6 years of experience rock climbing

Piano – Musical theory (ABRSM Grade 5), Great distinction