

## GAMELLE MEGANTCHE

Ottawa/Montreal/Open to relocation

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### Why Me?

I am a curious and motivated student who enjoys building things that are useful and meaningful. I believe that writing good code is not only about making it work, but also about making it clear, helpful, and easy to understand. Thanks to my co-op experiences, Personal projects, and hackathons, I have learned how to work well with others, take feedback seriously, and improve my work step by step. I really enjoy writing clean code, collaborating in a team, and solving real problems that can help people. I am bilingual in English and French, which helps me collaborate smoothly across diverse teams.

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### RELEVANT EXPERIENCE

#### Software Developer – Database Project (**UnborderED**)

*University of Ottawa / May 2025 – Aug 2025*

- Designed and built a bilingual opportunity database used by 100+ students and staff using Wix CMS.
- Acted as the sole technical contributor with direct coordination with the business team, and delivering the full system architecture end-to-end.
- Documented the entire workflow and system structure, improving maintainability and reducing onboarding time for future contributors by an estimated 50%.

#### Software Developer Intern & Team Lead

*Wouessi / Feb 2025 – Mar 2025*

- Built dynamic search and filtering pages that helped users find content faster, reducing search time by more than 35%.
- Refactored large and overloaded React components into clean, reusable modules, reducing code complexity by about 40% and making the project easier to maintain.
- Coordinated tasks with the team and provided guidance on technical decisions, helping the team complete sprint goals more efficiently.

#### Software Developer – CO-OP

*Immigration and Refugee Board of Canada / Sep 2024 – Dec 2024*

- Developed data processing solutions for internal applications using TypeScript and SQL.
- Fixed and deployed several bugs, improving system stability for 300+ internal users.
- Pushed updates through Azure DevOps pipelines, reducing testing turnaround time by about 20%.
- Improved application logic through code reviews and analyzing data patterns , reducing recurring issues across agile sprints.

#### IT Support & Systems Analyst

*Immigration and Refugee Board of Canada / Jan 2024 – Aug 2024*

- Resolved technical issues and user incidents with a structured troubleshooting process, improving first-contact resolution rate by about 30%.
- Managed secure databases and user access configurations, reducing configuration errors and access delays by approximately 25%.

#### Programming Assistant (CO-OP)

*University of Ottawa /May 2023 – Aug 2023*

- Designed clean HTML layouts by deciding heading levels, image-card placement, and text structure, improving accessibility and readability by about 35%.
  - Reviewed and corrected video transcripts and professor documents to ensure accuracy and clarity, reducing content errors by 30%.
  - Translated instructional images into French using Adobe Illustrator and edited their XML vector structures, improving bilingual resource quality by 45%.
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## Projects & Activities

### CEPAP – Education Management Platform ([Github Link](#))

Node.js · Express · PostgreSQL · Supabase

- Built a full authentication system (sign-up/login for admin + teachers) with secure role control.
- Designed a database for teacher accounts, school years, subjects, files, and permissions.
- Implemented structured file management with Supabase Storage (PDFs, documents, videos).
- Created REST APIs to upload, retrieve, and categorize files with filtering by year, subject, and type.
- Produced a clean UI and documented all backend architecture. ([Demo](#))

### GlamHair (React Wig Shop Website) ([Github Link](#))

- Built a full React web app for an online wig store with product filters, a shopping cart, and user tutorials. ([Live](#))
- Designed clean and accessible UI components with React, bootstrap and CSS, including translations with Google Translate.
- Created wig care tutorials, product pages, and a multi-step buying experience to improve user navigation.
- Deployed the project on GitHub Pages and structured the code into reusable React components to improve maintainability.

### uOttahack 8: NAV CANADA challenge: Aircraft Conflict Detection Challenge

- Designed a real-time prototype to detect potential mid-air aircraft conflicts using flight trajectory data (altitude, speed, direction).
- Built and presented a working proof of concept to NAV Canada mentors during a fast-paced hackathon.
- Gained hands-on experience in algorithm design, teamwork, and technical communication under pressure.

### uOttahack 7:

- Built a web app with my team to help students find universities based on their preferences during the uOttahack 7 hackathon.

### Women in Computing Event:

- Participated in a women-in-tech programming competition and networking event focused on inspiring and supporting women in IT.

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## EDUCATION

### Bachelor of Applied Science in Software Engineering (CO-OP)

University of Ottawa / Expected Graduation: December 2026

Relevant Coursework: Data Structures and Algorithms · Database Systems · System Design · Human-Computer Interaction · Full-Stack Web Development · Software Architecture

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## TECHNICAL SKILLS

**Programming Languages:** Python, C#, Java, JavaScript, TypeScript, SQL,

**Technologies & Frameworks:** Node.js, React, Angular, MongoDB, Microsoft SQL Server, Docker, Spring Boot, Swagger

**Tools & Platforms:** Git, Azure DevOps, Wix CMS/Velo, MS Teams, VPN Clients, Jira, Power BI

**Data :** Database design and optimization, data processing, API integration and development, AI/ML,

**Development Practices:** Agile methodology, version control, documentation, testing, CI/CD, Code maintenance, DevOps