

# Jeff Pendency

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## EDUCATION

### University of Montreal

*B.Sc. in Computer Science*

Montreal, QC

*Jan. 2023 – Sept 2026*

## RELEVANT COURSEWORK

- Advanced Software Engineering
- Data Structures
- Data Science & ML
- Computer Networking
- Algorithm Design
- Distributed Systems
- Operating Systems
- Computer Graphics

## PROJECTS

### Picto 360 | *React, TypeScript, Node.js, MongoDB*

May 2025 – Present

- Designed and implemented end-to-end workflows and core business logic independently in an Agile Scrum environment.
- Proposed and delivered a student management system, reducing external licensing costs by **\$7,500+/year**.
- Improved perceived UI responsiveness and rendering by **60%** by optimizing data flows and backend processes.
- Created a testing plan, wrote technical documentation, and presented milestones/results to the client.

### Athena HopeBridge (Morgan Stanley Code To Give) | *Python, Django, React, JavaScript*

Nov 2025

- Built a full-stack platform integrating frontend components with backend services and external APIs.
- Improved the donor experience by **60%** through a modern UI and AI-assisted features.
- Collaborated in a **5-person** Agile team: gathered requirements, broke down tasks, shipped iterative releases.
- Delivered in an English-only, professional environment; used Git for coordination and code reviews.

### ML Image Classification Platform | *Docker, Google Cloud*

Nov 2025

- Deployed a containerized ML inference pipeline on Google Cloud with a reproducible build/run workflow.
- Practiced production-style debugging, monitoring, and validation (logs/metrics, failure triage, smoke checks).
- Strengthened understanding of cloud storage/compute and scalable systems; skills transferable to ETL/analytics pipelines.

### MaVille | *Java, REST APIs*

Mar 2024

- Implemented a backend system to access real-time roadwork data and submit citizen service requests.
- Integrated public city APIs, handling data normalization and backend business rules.
- Applied OOP design, separation of concerns, and maintainable architecture patterns.

## EXPERIENCE

### Teaching Assistant

Jan 2026 – Present

*Université de Montréal*

*Montreal, QC*

- Supported **150+** students in Operating Systems (IFT2245) by clarifying concepts and guiding problem solving.
- Managed autograding infrastructure using **GitHub Classroom** and **GitHub Actions** (CI): test scripts, validation, and pipeline troubleshooting.
- Graded assignments and assessments; delivered actionable feedback and ensured consistent evaluation standards.

### Inventory Clerk

Aug 2023 – Aug 2025

*Voilà by IGA*

*Pointe-Claire, QC*

- Analyzed inventory data using Microsoft Office tools to support inbound/outbound delivery decisions.
- Performed **15+** accuracy-critical audits daily with consistent precision and attention to detail.
- Collaborated cross-functionally across the warehouse in **English and French**.

## TECHNICAL SKILLS

**Languages:** Java, Python, TypeScript, JavaScript, SQL, C, C++, HTML/CSS

**Frameworks:** React, Node.js, Spring Boot, Django, FastAPI

**Databases:** PostgreSQL, MongoDB, Snowflake

**Cloud & DevOps:** Docker, AWS, Google Cloud Platform, CI/CD

**Tools:** Git, GitHub Actions/Workflows, Jira, Postman, IntelliJ, VS Code