

Emmanuel Richmond

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PROFESSIONAL EXPERIENCE

Software Developer Intern

Council of Ministers of Education, Canada | May 2025 – September 2025

- Assisted in developing and maintaining internal web tools used by staff for data management and reporting, **supporting 400+ end users across provincial teams**.
- Wrote and debugged Shell scripts to automate repetitive IT support and data-handling tasks, **reducing manual workload by 30%**.
- Collaborated with platform and data teams using Jira to integrate system monitoring features, **cutting issue-detection time by 42%**.
- Managed user authentication and access control through internal dashboards, **ensuring compliance with security policies**.

Software Developer Intern

QTech Software | Ottawa, ON | Oct 2024 – Apr 2025

- Built internal dashboard that reduced manual reporting time for 40 stakeholders from 4 hours to 15 minutes.
- Wrote Flask, JavaScript (ES6+) code, and used Agile/Scrum tools following best practices.
- Created unit and integration tests, reducing production bugs, and improving stability.
- Collaborated with product teams to design and implement Ads products.
- Authored technical documentation to support long-term maintainability.

Application Developer/Support Intern

Canadian Imperial Bank of Commerce | Toronto, ON | May 2023 – May 2024

- Supported internal business applications by diagnosing software, system, and network issues affecting commercial clients, **resolving 20–30 ServiceNow tickets per day with a 95% satisfaction rating**.
- Automated routine troubleshooting and configuration tasks with Bash to improve team efficiency.
- Collaborated with developers to escalate bugs, validate fixes, and support deployment of enhancements.
- Managed user access, security permissions, and documentation across internal systems.

SKILLS

Certifications: AWS Certified Developer - Associate

Languages & Frameworks: Java, Python (pandas, NumPy, Flask), C/C++, C#, SQL(MySQL / PostgreSQL), Swift, Kotlin, JavaScript(ES6+), HTML5, CSS, React Native, Node.js, TypeScript

Tools & Platforms: Git & GitHub, Spring Boot, Docker, Azure, Kubernetes, Argo, Jira, Agile/Scrum, Windows, Linux/Unix, CI/CD, Postman, Spark, Thrift, Baseplate, Kafka

Other Skills: Data management/analysis, Debugging & System troubleshooting, Unit & integration / Automated testing, Version Control Workflow, Bilingual communication (English/French)

Projects

Credit Risk Scoring System | Java, Spring Boot, Kafka, PostgreSQL, Docker, REST APIs

- Spring Boot microservice architecture with modular components for scoring, data ingestion, and decision evaluation.
- Asynchronous event streaming using Apache Kafka to simulate real-world banking transaction flows and risk triggers.
- PostgreSQL data model for user profiles, financial histories, and model-generated risk scores
- REST endpoints enabling client applications to request scores, submit financial data, and retrieve audit trails.
- Containerizing services with Docker for reliable development to any cloud platform

Banking Web Application | React, Python, Flask, PostgreSQL, REST APIs, Render, JWT Auth

- Built a full-stack online banking system featuring secure user authentication, account creation, deposits, withdrawals, transfers, and real-time transaction history.
- Developed a Flask REST API with JWT authentication, PostgreSQL persistence, and modular route architecture.
- Created a responsive React frontend integrated with a hosted backend using Axios and environment-based API routing.
- Deployed the entire system using Render, including automated database migrations and production-ready API endpoints.
- Live Here: <https://banking-frontend-4cyc.onrender.com/>

EDUCATION

Bachelor of Computer Science (Honours) – Carleton University – *Graduated June 2025*

Leadership and Interests

ENDURE COMPANY

Founder & Creative Director — Endure Company (Nov 2025 – Present)

Developing a youth-focused lifestyle and mental-wellness brand built to empower young people to push through hardships and strengthen their communities. Designed the brand identity, messaging, and apparel concepts (hoodies, tees, hats, accessories). Built early digital presence across Instagram/TikTok and designed marketing strategies targeting Gen Z audiences. Coordinating with manufacturers for custom garments and responsible for brand direction, storytelling, and community engagement initiatives.