

RAYMART BLESS DATUIN

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Work Experience

RBC Capital Markets

Nov 2025 – Present

Jr. Data Engineer

Calgary, AB

- Developed and maintained **ETL/ELT pipelines** to ingest, transform, validate, and load enterprise data for **analytics** and **reporting**.
- Built and optimized data workflows using **Python, Pandas, SQL, and Bash**, improving **efficiency**.
- Designed and maintained **relational data models** and database objects in **Microsoft SQL Server**, developing **stored procedures, queries, views, and validation checks** to support reporting, data quality, and integration workflows.
- Documented a **CI/CD proof of concept** using **Git** and **GitHub Actions** to automatically validate pull requests and notify developers of **success or failure**, improving deployment consistency and surfacing integration issues earlier.
- Created **test cases** and **validation checks** for ETL processes to ensure data accuracy, completeness, and alignment with business rules.

Sunmor Research Inc.

May 2024 – Apr 2025

Machine Learning & AI-integrated Medical Software Developer — Project Manager

Edmonton, AB

- Secured **\$1 million in funding** by developing and presenting a functional **brain-computer interface demo with EEG integration** to client partners and at the **Canadian Society for Pharmaceutical Sciences** conference.
- Improved clinician usability by **70%** through **PyQt6 interface development** and iterative product refinement based on user feedback.
- Boosted real-time processing performance by **64%** by optimizing core algorithms through migration from **Python** to **C/C++/Cython** and adding **parallelization**.
- Delivered the MVP **3 weeks ahead of schedule** by managing a **10-person cross-functional team**, defining milestones, coordinating weekly stakeholder updates, and improving team execution through GitHub Projects-based collaboration.

Projects

Locally Hosted Financial Tracker Agentic Workflow

Python | CrewAI | Ollama

- Developed a **locally hosted agentic workflow** that extracts and classifies **receipt line items** into **structured JSON**, enabling more efficient **financial review**, and **expense categorization**

Two-wheeled Self-Balancing Inverted Pendulum Robot

Python | Raspberry PI | AutoCAD

- Led the design and development of a **two-wheeled, battery-powered self-balancing robot**, overseeing **system architecture, control algorithm implementation**, and **hardware integration** to achieve stable vertical balancing using real-time sensor feedback
- Conducted extensive **simulations and real-world testing** to fine-tune **PID control parameters**, gaining hands-on experience in **embedded systems integration** and **real-time control** within a complex electromechanical system

Auto-Scaling Cloud Microservices

Python | Docker | Flask

- Developed a **reactive auto-scaling engine** that optimized microservice count based on response latency, improving system reliability while reducing resource usage
- Deployed scalable architecture using **Docker** on Cybera cloud; integrated CI/CD pipelines for automated testing and deployment

Technical Skills

Languages: Python, SQL, Java, JavaScript, C/C++, C#, HTML/CSS, MATLAB, Bash

Tools: Git, GitHub Actions, Microsoft SQL Server, Docker, Linux, MySQL, SQLite, DataStage, Agile, DevOps

Frameworks/Libraries: Pandas, Flask, ReactJS, NodeJS, ExpressJS, Bootstrap, PyQt6

Specialties: Data Engineering, ETL/ELT Pipelines, Engineering Data Management, Data Modeling, Relational Database Design, Data Validation, CI/CD

Certification: SnowPro Associate: Platform Certification

Education

University of Alberta

Sep 2020 – Apr 2025

Bachelor of Science in Computer Engineering

Edmonton, AB

- Relevant Coursework:** Data Structures & Algorithms, Artificial Intelligence, Database Management Systems, Software Engineering, Discrete Mathematics, Calculus, Linear Algebra, Probabilities and Statistics, Circuits, Robotics.