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WORK EXPERIENCE

BMO Financial Group: Capital Markets

February 2025 – Present

Backend Python Software Developer

Toronto, ON

- Develop and support **Python** and **SQL** **trade-processing**, **ETL** and **reporting systems** across **two capital-markets trading platforms** (swaps, loans, ETFs, convertibles, prime brokerage) handling ~500k trades daily
- Build data pipelines and integrations with **Oracle** (PL/SQL), **SQL Server** (T-SQL), **Apache Kafka**, **IBM MQ**, **REST** and **vendor market-data APIs**, scheduled and orchestrated through **Autosys** (JIL) and Windows batch
- Modernize **legacy .NET** and **JavaScript** reporting and credit-risk processes into modular, **config-driven Python frameworks**, improving performance, resilience and maintainability
- Design **monitoring**, **alerting** and **data-quality controls** (reconciliation reports, completeness checks, SMTP escalation) supporting production support, **incident RCA**, and **audit and regulatory compliance**

Revature – CitiBank & BMO

September 2024 – Present

L2 Production Support & Software Developer

Remote

- Build and optimize **trading tools/platforms** for traders handling US/Canadian **stocks**, **securities**, and **bonds**
- Develop **RESTful APIs** using **Python**, **Flask**, **SQLAlchemy**, and **Azure DB**, while converting code
- Implement **CI/CD pipelines** with **Ansible**, **Jenkins**, **Pytest**, & **messaging queues** with **RabbitMQ/Celery**

Horizon Digital

July 2021 – September 2024

Software Developer / Data Analyst

Remote

- Collaborated with **cross-functional teams** to design, develop, and deploy web applications using:
 - **HTML**, **CSS**, **JS**, **Angular**, **SOAP**, **Legacy .NET**, **SQL**, **Git**, **Jira**, **ServiceNow**, **Caching**, etc.

PROJECTS

MBATS – Microservices-Based Algorithmic Trading System

February 2026 – Present

- Designed and operate a 20-service **Docker microservices platform** (**Python**, **FastAPI**, **PostgreSQL**, **Airflow**, **MLflow**, **nginx**, **Firebase Auth**) for backtesting and paper-trading an intraday options strategy on **Interactive Brokers**

ATLAS – Automated Transformation, Leverage & Analysis System

August 2026 – Present

- Built the foundation of a **multi-agent business-automation platform** in **Python 3.12** with **Pydantic**, **LangGraph** and **SQLite**: a 14-agent roster, a shared client-agnostic skills layer, and per-client configuration with CI-enforced typing and tests

TECHNICAL SKILLS

- **Programming:** Python, SQL, C#, Java, C/C++, JavaScript/TypeScript, HTML/CSS, PowerShell, .NET
- **Database & Systems:** Oracle, SQL Server, PostgreSQL, SQLAlchemy, Unix/Linux (bash, cron)
- **API & Backend Development:** RESTful APIs, FastAPI, Pydantic, Flask, vendor API integration, XML/JSON
- **DevOps & CI/CD:** Git/GitHub, Docker, Autosys (JIL), Pytest, Jenkins, Ansible, Copilot/Claude Code
- **Messaging & Cloud:** Apache Kafka, IBM MQ, RabbitMQ/Celery, Nginx, Gunicorn, Firebase, Azure, AWS
- **Data & Monitoring:** ETL, data reconciliation, Power BI, Airflow, XGBoost/PyTorch, Prometheus/Grafana, LangGraph

SOFT SKILLS

- **Financial & Industry Knowledge:** Capital markets (swaps, loans, convertibles, ETFs, options), counterparty credit risk, pricing & valuation, SWIFT MT/MX, audit controls
- **Communication & Leadership:** Technical documentation, mentoring, stakeholder & vendor management
- **Organization & Problem Solving:** Incident RCA, change management (CRQ/CAB), test strategy

EDUCATION

University of Windsor

BSc, Computer Science

Completed

Windsor, ON