Dylan Law

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TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL (MySQL, PostgreSQL), HTML
Frameworks & Libraries: FastAPI, Spring, Spring Boot, React, JUnit
Other: Git, Postman, Jira, Docker, ServiceNow, NoSQL (MongoDB, Firebase), CSS

WORK EXPERIENCE

Automation Analyst Co-Op
Royal Bank of Canada (RBC)

Toronto, ON
May 2024 – Aug 2024

- Built an internal full-stack web application using the FastAPI framework to automate the identification of top traffic rules on over 500 firewall devices, and simplified the retrieval of post-implementation verification details, saving over 400 hours per year
- Automated API data ingestion with Airflow DAGs, storing responses in PostgreSQL, which improved server performance by 97% by reducing live API calls, with data refreshed bi-weekly
- Developed a Python script integrated with an internal RBC API to dynamically retrieve emails for over 95,000 employees, saving an estimated 2 hours per week by eliminating manual lookups in Microsoft Outlook
- Authored comprehensive documentation and designed process flow charts to convey technical concepts, and conducted product presentations to showcase project significance in achieving business goals to diverse audiences

Software Developer / Systems Analyst Co-Op
Independent Electricity System Operator (IESO)

Oakville, ON
Sep 2023 – Dec 2023

- Built a script on the ServiceNow platform which enabled data extraction to IBM's Jenkins platform with custom JavaScript code, resulting in IBM automating cloud-based server activation and deactivation processes, realizing annual savings of over $5000 for IBM
- Developed a custom JavaScript automation script that simplified a 5-step ticket submission process into a single-step action using a Record Producer, reducing user clicks by 80% and enhancing the user experience

Data Science Research Assistant
Sheridan College Centre for Mobile Innovation (CMI)

Oakville, ON
Oct 2023 – Dec 2023

- Contributed to the development of a Python script that automated data cleaning, extraction, and analysis of a dataset containing over 50,000 license plate records, used for character analysis and improved the existing model's algorithm accuracy for license plate character recognition
- Implemented a Python-based OCR validation tool utilizing the Levenshtein Distance algorithm, incorporating threshold-based confidence assessments to measure and verify the precision of vehicle plate data recognition

DevOps Automation Engineer Co-Op
Sun Life Financial

Toronto, ON
Jan 2023 – Apr 2023

- Developed a Python script to send API requests to multiple endpoints concurrently, importing data into Microsoft Excel for manipulation, filtration, and extraction, ultimately achieving a significant reduction in manual data processing time and generating cost savings of $10,000+ annually
- Automated the population of a Confluence table with Jira ticket information by leveraging JQL, saving roughly 3 hours per week and significantly improving the accuracy and completeness of project documentation

EDUCATION

Sheridan College
Advanced Diploma - Software Development and Network Engineering
Cumulative GPA: 3.89/4.0

Oakville, ON
Sep 2021 - Dec 2024

McMaster University
Honour's Bachelor of Science (B.Sc) - Earth and Environmental Science
Minor - Geographic Information Systems (GIS)

Hamilton, ON
Sep 2014 – Jun 2018

PROJECTS

Tesla Price Targets | Java, Spring Boot, Spring, React, Firebase, Docker

- Created a full-stack web application that aggregates Tesla stock price forecasts from over 30 financial analysts and displays key financial metrics using third-party APIs and presenting them in dynamic and interactive graphs