

Dylan Law

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TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL (MySQL), NoSQL (MongoDB, DynamoDB), HTML, CSS

Frameworks & Libraries: Spring, Spring Boot, React, NodeJS, JUnit

Other: Git, Visual Paradigm, REST APIs, Jira, Docker, AWS, ServiceNow

WORK EXPERIENCE

Software Developer / Systems Analyst Co-Op

Oakville, ON

Independent Electricity System Operator (IESO)

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
- Created a custom JavaScript automation script that consolidated a multi-step ticket submission process into a single-step action through a Record Producer, dramatically boosting efficiency and improving the user experience
- Utilized the Automated Test Framework (ATF) to create and execute comprehensive test suites, ensuring the reliability and quality of software deployed to both the client and server side, benefiting all 52 energy providers in Ontario
- Addressed and resolved a range of minor bugs across multiple systems, while also implementing small-scale enhancements, collectively contributing to improved system stability and user satisfaction

Data Science Research Assistant

Oakville, ON

Sheridan College Centre for Mobile Innovation (CMI)

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 accurately measure and verify the precision of vehicle plate data recognition
- Conducted literature review on scholarly journals that focused on machine learning algorithms relating to text recognition and incorporated relevant findings into ongoing research projects

DevOps Automation Engineer Co-Op

Toronto, ON

Sun Life Financial

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
- Authored comprehensive documentation on Packer, Terraform, and TFLint, detailing step-by-step procedures, best practices, and troubleshooting guidelines, to facilitate on-boarding and knowledge transfer for future students

EDUCATION

Sheridan College

Oakville, ON

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

Sep 2021 - Dec 2024 (Anticipated)

McMaster University

Hamilton, ON

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

Sep 2014 – Jun 2018

PROJECTS

Tesla Price Targets | Java, Spring Boot, Spring, Lombok, React, MySQL, ChartJS

- Designed and developed a comprehensive full-stack web application that consolidates price target predictions from 30+ financial analysts, using TSLA stock as the primary focus
- Integrated third-party APIs to fetch and exhibit financial data, such as gross margin and free cash flow, while employing suitable graphical representations for enhanced visualization