

SOFTWARE DEVELOPER · MLOPS ENGINEER

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Education

Brock University, St. Catharines

ON, Canada

M.Sc in Computer Science

• Resource Management in Distributed Systems (Vehicular Networks)

Work Experience

Laivly WI, Canada

Senior Data Engineer March 2021 - Present

- Developed and implemented scalable data pipelines using Python and Apache Spark, resulting in improved efficiency and reduced data processing time by 40%.
- Ensured a smooth transition by converted existing Python modules into jobs designed to be compatible with PySpark's distributed computing environment.
- Cooperate with data engineers in designing and building a robust data lake architecture, ensuring accurate and timely data ingestion and integration from various sources.
- Collaborated with cross-functional teams to identify and address data quality issues, resulting in a 30% reduction in data errors and improved
 overall data integrity.
- Optimized database performance by setting up transform and setting the servers to be serverless, resulting in a 50% cost reduction.
- Created an internal prompt tool that aids sales and solutions increasing productivity and reduce time for scoping out clients solutions by 10%.
- The scrubber module was enriched by incorporating the Java Stanford Named Entity Recognizer (NER), a move that boosted the module's data processing speed by leveraging cutting-edge natural language processing technology.
- Troubleshooting data-related challenges became more efficient through the use of Datadog logs, ensuring system performance remained at its peak. Additionally, they employed the K6 tool for load testing model services and used Datadog's forecasting features in tandem with K6 to refine the scaling of model services, underpinning the team's commitment to robust and responsive data infrastructure management.

Ecoli-Sense ON, Canada

MACHINE LEARNING DEVELOPER

Jan 2019 - May 2020

- Developed a Twitter sentiment analysis tool, which serves as an assistant for market research, providing valuable insights into public opinion and trends. To ensure efficient data retrieval, optimized the PostgresDB, resulting in significantly faster SQL query execution.
- Constructed a prediction model using Python with the PyTorch framework, designed to predict E. coli concentrations in water samples accurately. This model's predictions are presented within a range of confidence intervals, offering a clear and reliable assessment of potential contamination levels.
- Furthermore, Plotly was chosen for data visualization, a decision that allows for interactive, publication-quality graphs. This tool has enabled the clear and effective presentation of data, facilitating an intuitive understanding of the model's predictions and the underlying sentiment analysis findings.

RBC Digital Investing ON, Canada

DEVOPS SPECIALIST CO-OP• Developed a tool for QA team to perform visual regression testing.

- An automated visual testing tool that let's the QA team test visual differences across the RBC digital investing platform.
- This visual tool was based on Robot-framework, Open-CV and Flask.
- Assisted in integrating SonarQube with Jenkins, that allowed to check for best practices within the team.

RBC Digital Investing ON, Canada

SOFTWARE DEVELOPER CO-OP

Sep. 2016 - Dec 2016

May. 2017 - Aug 2017

- · Assisted with developing in-house agent tool for new business line based on React and .NET Core.
- Developed end-to-end smoke testing scripts.
- Setup automated smoking testing based on Python, Robot-framework and Jenkins.
- · This increased the deploying time because the environments were pre-tested and prepared before hand.

Skills

Languages

Python (Proficient), C# (Proficient), HTML (Proficient), CSS (Proficient), Javascript (Proficient), SQL (Proficient), Java (Prior

Experience)

UT Framework Mocha, Chai, Robot, Seleium, JUint, DotNet

Databases MySQL, PostgreSQL, Mongo, TSQL

Other technologies PySpark, Kubeflow, DataBricks, Docker, Kubernetes, ArgoCD

November 5, 2023 Abubakar Saad · Résumé