

LIDIYA MURAKHOVS'KA

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EDUCATION

University of Waterloo
B.Sc. Computer Science, Co-op

September 2015 - (Expected) June 2020

EXPERIENCE

Shopify
Data Engineering Intern

September 2017 - December 2017
Ottawa, ON

- Feature development for a **dimensional modeling** tool in PySpark.
- Implemented pipelines to build and refine datasets; created reports on the extracted insights.
- Transitioned internal container build system to using **Docker**, speeding up CI and deployment times.

Interset
Software Engineering Intern

January 2017 - April 2017
Ottawa, ON

- Built features for threat detection application, implementing **user/entity behavior analytics**.
- Developed **incremental mode** for processing time series data in analytics jobs.
- Optimized runtime of Spark jobs indexing data to **Elasticsearch**.
- Secured parts of the system communicating with ES cluster, node-to-node encryption with SSL/TLS.

Interset
Software Engineering Intern

May 2016 - August 2016
Ottawa, ON

- Implemented **anomaly detection** models in Scala using **Apache Spark** framework.
- Built endpoints for a reporting application in Java, querying data from Elasticsearch.
- Wrote scripts to support effective troubleshooting and monitoring of analytics stack.

SKILLS

Languages	Python, Scala, Java, C++, C, Racket, SQL
Frameworks & Tools	Apache Spark, HBase, Hadoop, Elasticsearch, Docker, Phoenix, Oozie, Presto

PROJECTS

Tweets Analyzer

- Sentimental analysis of tweets in Scala with Apache Spark and Elasticsearch.
- Trained logistic regression model to classify incoming tweets as positive/negative.
- Visualization of trends in data through Kibana; data ingestion with Logstash.

Recommender System

- Developed a recommender system using model-based collaborative filtering approach.
- Built using Python, scikit-learn; trained on the MovieLens dataset.

Twelper

- Mobile app that suggests efficient routes for visiting top destinations in a city.
- React Native application leveraging Yelp and Uber APIs.