Lidiya Murakhovs'ka

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EDUCATION

University of Waterloo   September 2015 - (Expected) May 2020
B.Sc. Computer Science, Co-op. *GPA: 3.59*

EXPERIENCE

Salesforce   May 2018 - Aug 2018
Software Engineering Intern   *Palo Alto, CA*

· Designed and implemented network traffic **anomaly detection** system for cloud environments.
· Built **real-time** data pipelines to create centralized cross-account logging solution on **AWS**.
· Analyzed terabytes of network telemetry data to generate insights into traffic activity patterns.
· Developed library for dynamic graph visualization of Spark's GraphX objects utilized across teams.

Shopify   Sep 2017 - Dec 2017
Data Engineering Intern   *Ottawa, ON*

· Developed features for a **dimensional modeling** tool in PySpark.
· Created pipelines to build and refine large datasets for optimized reporting.
· Transitioned internal container build system to using **Docker**, speeding up CI/CD by 50%.
· Parallelized job scheduling processes to decrease deployment times by 20%.

Interset   Jan 2017 - Apr 2017
Software Engineering Intern   *Ottawa, ON*

· Implemented core features for **user and entity behavior analytics** application.
· Reduced runtime of all data synchronization jobs by implementing **incremental** indexing mode.
· Refactored back-end of reporting application for optimized **Elasticsearch** indices.

Interset   May 2016 - Aug 2016
Software Engineering Intern   *Ottawa, ON*

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

SKILLS

Languages	Python, Scala, Java, C, C++, R, Racket, SQL, Bash
Technologies	Apache Spark, Hadoop, HBase, Elasticsearch (ELK), Kinesis, Phoenix
DevOps	AWS, Google Cloud Platform, Docker, Terraform, Oozie, Datadog

PROJECTS

Break CAPTCHA | *Python, OpenCV, Keras, Tensorflow, Numpy, Docker*

· Solving simple 4-letter captcha challenges with OpenCV and Keras.

Tweet Analyzer | *Scala, Apache Spark, MLlib, ELK*

· Sentimental analysis of tweets in Scala with Apache Spark and Elasticsearch.

Venmo Transactions Graph

· Analyzing a graph of streaming Venmo payments over a sliding window of time.