

# LIDIYA MURAKHOVS'KA

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## Skills Summary

- *Languages:* Java, Scala, Python, C++, C, Racket, SQL
- *Frameworks/Tools:* Apache Spark, HBase, Phoenix, Elasticsearch, Kibana, Docker, Git

## Work Experience

### Intersect

Software Engineering Intern

Ottawa, ON

January – April 2017

- Feature development for a big data analytics application; utilizing machine learning to detect cyber threats
- Optimized indexing and querying of analytics results by implementing new approach for processing time series data
- Secured parts of the system communicating with Elasticsearch cluster, node-to-node encryption with SSL/TLS

### Intersect

Software Engineering Intern

Ottawa, ON

May – August 2016

- Implemented new analytical models in Scala using Apache Spark framework
- Built endpoints for querying analytics results from Elasticsearch
- Developed stability features for troubleshooting and monitoring analytics at customer sites

### GloBuds

Co-founder/CFO

Malta

September – May 2014

- Started up a company as part of Young Enterprise program (national business competition)
- Raised share capital; pitched company's business plan to a panel of judges
- GloBuds operated as a wholesale distributor of an organic fertilizer (sapropel, imported from Latvia) in Malta

## Projects

### Tweets Analyzer

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

### Twelper

- Mobile app that suggests efficient routes for visiting top destinations in a city
- Built using Node.js, React Native; leverages Yelp and Uber APIs

### Quora Question Pairs

- Used machine learning and NLP to determine whether two given questions are subject duplicates

### ChamberCrawler3000

- A simplified version of a Rogue-like video game implemented in C++ following design patterns and OOP's best practices

## Education

### University of Waterloo

Bachelor of Computer Science, Co-op, 2B Term

Waterloo, ON

September 2015 – Present

### Online Courses

- *Udacity:* Intro to Machine Learning, Intro to Hadoop and MapReduce
- *Coursera:* Functional programming in Scala