

# NISAL PERERA

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## PROFESSIONAL EXPERIENCE

### Data Engineer

Jan 2018 - Present

#### The Weather Network, Oakville

- Developed ETL pipelines in Google Dataflow to process millions of GPS breadcrumbs daily.
- Implemented a web behavioral segmentation algorithm using Apache Spark for ad targeting.
- Developed data models in Google BigQuery improving scalability, costs and query runtime.
- Designed and implemented Python Flask back-end micro-service APIs on AWS Lambda.
- Optimized Elasticsearch and Redshift databases to meet real-time performance requirements.
- Maintained an Apache Airflow server for coordinating and scheduling ETL pipeline jobs.
- Led the release of new products coordinating all the business stakeholders and developers.

### Data Science Engineer

May 2017 - Dec 2017

#### Rubikloud Technologies Inc., Toronto

- Worked with data scientists to build a batch personalized product recommendations model.
- Developed scalable machine learning and data processing pipelines in PySpark on AWS EMR.
- Productized machine learning models into robust production-grade systems using Luigi.
- Deployed machine learning solutions on AWS cloud services using Docker containerization.
- Built an automated testing and reporting platform for verifying the quality of model predictions.

### Graduate Teaching Assistant

Sep 2016 - Apr 2017

#### Department of Computer Science, University of Toronto

- Conducted weekly C programming lab sessions and graded student assignments/exams.

### Software Engineer

May 2014 – Aug 2015

#### Advanced Micro Devices Inc., Markham

- Implemented kernel driver features in C++ for VR, Wireless and 4K display products.
- Worked closely with QA team to triage and resolve Windows and Linux driver issues.
- Practiced agile development process and presented in weekly code review meetings.

## EDUCATION

### MSc in Applied Computing (3.92/4.0)

Sep 2016 – Dec 2017

University of Toronto

**Coursework:** Machine Learning, Computer Vision, Natural Language Computing

Human-Computer Interactions, Technology Entrepreneurship

**Awards:** Mitacs Accelerate Fellowship Grant

### BASc Computer Engineering, Honours (3.74/4.0)

Sep 2011 – May 2016

University of Toronto

**Coursework:** Algorithms and Data Structures, Operating Systems, Computer Security, Software Optimization, Computer Networks, Introduction to Databases, Web Programming

**Awards:** Dean's Honours List, University Entrance Scholarship

## SKILLS

- **Programming Languages:** Python, Java, C/C++, SQL, Javascript
- **Big Data:** Elasticsearch, Amazon Redshift, Google BigQuery, DynamoDB, S3
- **Cloud Computing:** Amazon EMR, EC2, Google Dataflow, Apache Spark, Docker
- **Machine Learning:** TensorFlow, pySpark, Scikit-learn, Pandas, Matplotlib, MLlib