

PARSA TORABIAN

3B Waterloo Electrical Engineering Co-op Student

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WORK EXPERIENCE

Junior Data Scientist – Intelligent Mechatronic Systems

May 2018 – August 2018 (Waterloo)

- Designed a distributed data processing pipeline using Apache Airflow, Hadoop, Redis, and MongoDB
- Deployed and optimized Java applications processing billions of rows of information
- Helped develop models for quantifying driver vigilance through telematics data

Software Developer – Bombardier Aerospace

September 2017 – December 2017 (Toronto)

- Designed and implemented a data pipeline for aggregating and loading aircraft report metadata
- Sped up web application load-up times by up to 1400%
- Presented status of internal tools to management

Software Developer – Sunnybrook Hospital

January 2017 – April 2017 (Toronto)

- Redesigned and rebuilt a fully responsive, web-based medical image viewer suitable for clinical testing using LAMP stack

Software Developer – Holmusk

May 2016 – August 2016 (Singapore)

- Designed and implemented a NodeJS chatbot and accompanying iOS app from scratch

iOS Developer – Glocalspace Inc

May 2015 – December 2015 (Toronto)

- Used Swift/Objective-C to maintain a commercial POS app; worked primarily on data consistency and integrity
- Designed an SQLite object visualizer tool to help QA testers see data discrepancies

Engineering Assistant – Brightstar Canada

June 2014 – August 2014 (Markham)

- Simulated cell-tower emission levels and wrote safety reports citing the results

STRENGTHS

- C, C++, Java
- MySQL, Redis, Cassandra, MongoDB
- Python: Numba, Dask, Pandas, Numpy
- Hadoop, Spark, Airflow
- NodeJS and PHP
- iOS development (Objective-C, Swift)
- Web development (HTML, CSS, Javascript)

INTERESTS

- Distributed and Parallel Computing
- GPU Programming
- Data Engineering
- Signal Processing
- Linguistics and Natural Languages
- English/Persian Literature

EDUCATION

University of Waterloo

Electrical Engineering
January 2016 – May 2020

Candidate for Honors Bachelor of Applied Science, Co-op

Research Assistant

September 2018 – Current

Working with Dr. Arash Arami to characterize human motor memory using machine learning techniques

