PARSA TORABIAN

4A Waterloo Electrical Engineering Co-op Student

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WORK EXPERIENCE

Data Scientist – IBM
4 months, Jan – Apr 2019 (Toronto)
- Built, tuned, and debugged various algorithms for Watson Financial Services – mainly NLP based for financial regulations
- Led innovation workshops; taught deep learning and big data concepts to software professionals
- Helped deploy Hadoop and Kubernetes environments

Junior Data Scientist – Intelligent Mechatronic Systems
4 months, May – Aug 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

Software Developer – Bombardier Aerospace
4 months, Sept – Dec 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%

Software Developer – Sunnybrook Hospital
4 months, Jan – Apr 2017 (Toronto)
- Redesigned and rebuilt a fully responsive, web-based medical image viewer suitable for clinical testing using LAMP stack

Software Developer – Holmusk
4 months, May – Aug 2016 (Singapore)
- Designed and implemented a NodeJS chatbot and accompanying iOS app from scratch

iOS Developer – Glocalspace Inc
8 months, May – Dec 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
2 months, June – Aug 2014 (Markham)
- Simulated cell-tower emission levels and wrote safety reports citing the results

EDUCATION

University of Waterloo
Electrical Engineering, Honours
January 2016 – May 2020

RESEARCH

Research Assistant
Spring 2019: Working with Dr. Bryan Tripp on realistic foveation in CNNs (computer vision)

Research Project
SYDE 556: Built a model of chimpanzee directional awareness using a spiking neural network

Research Assistant
Fall 2018: Worked with Dr. Arash Arami to characterize human motor memory

STRENGTHS

- C, C++, Java, Scala
- Python: PyTorch, Dask, Keras, PySpark, Numpy
- Neural networks: CNNs, LSTMs, SNNs, Transformers
- MySQL, Redis, Cassandra, MongoDB
- Hadoop, Spark, Kafka
- NodeJS, PHP, Flask
- Docker, Kubernetes (via IBM Cloud tools)
- Linux & Bash Scripting
- iOS development (Objective-C, Swift)
- Web development (Monolith & Microservice)