PARSA TORABIAN

4B Waterloo Electrical Engineering Student

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WORK EXPERIENCE

Data Scientist – Capital One
4 months, Sept – Dec 2019 (Toronto)

- Building horizontal tooling for GBM and GLM models

Data Scientist – IBM
4 months, Jan – Apr 2019 (Toronto)

- Built, tuned, and debugged NLP classification models for Watson Financial Services
- Led innovation workshops; taught deep learning and big data concepts to software professionals

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 – August 2014 (Markham)

EDUCATION

University of Waterloo
Electrical Engineering, 81% GPA
Honors B.AS, Expected May 2020

RESEARCH

Undergrad Research
Spring 2019, Ongoing: Working with Dr. Bryan Tripp on realistic foveation in CNNs. Designed custom Densenet models to evaluate downsampling techniques. Currently incorporating work into a Saccader model.

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

Undergrad Research
Fall 2018: Feature engineering on EMG data with Dr. Arash Arami for characterizing motor memory

STRENGTHS

- C, C++, Java, Scala
- Python: PyTorch, Dask, Sklearn, Numpy, Pandas,
- Neural Networks: CNNs, LSTMs, SNNs, Deep RL
- MySQL, Redis, Cassandra, MongoDB, Postgres
- Hadoop, Spark, Kafka
- NodeJS, PHP, Flask
- Signal Processing, Time-series analysis
- Docker & Kubernetes
- Linux & Bash Scripting
- Web development (Monolith & Microservice)