PARSA TORABIAN

3B Waterloo Electrical Engineering Co-op Student

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WORK EXPERIENCE

Research Assistant – University of Waterloo
September 2018 – Present (Waterloo)

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

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

○ Supported 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

EDUCATION

University of Waterloo
Electrical Engineering
January 2016 – May 2020

Candidate for Honors Bachelor of Applied Science, Co-op

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

STRENGTHS

○ C, C++, Java, Scala

○ MySQL, Redis, Cassandra, MongoDB, Postgres

○ Python: Numba, Dask, Pandas, Numpy, Keras

○ Hadoop, Spark, Airflow

○ NodeJS and PHP

○ Matlab, Nengo

○ Linux and Bash Scripting

○ iOS development (Objective-C, Swift)

○ Web development (HTML, CSS, Javascript)

INTERESTS

○ Distributed and Parallel Computing

○ GPGPU Programming

○ Signal Processing

○ Data Engineering

○ Linguistics and Natural Languages

○ English/Persian Literature

References available at http://torabian.me