

Tianxin Li

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EDUCATION

Sep. 2019 | Bachelor of Computer Science, **University of Waterloo**

Sep. 2019 | Bachelor of Business Administration, Finance Option, **Wilfrid Laurier University**

SKILLS AND TECHNOLOGIES

Language Python · C++ · C · Scheme · Java · Scala · SQL · JavaScript
Data Analysis scikit-learn · Keras · OpenCV · PyTorch · Pandas · NumPy · Neo4j Graph Database
Database and Automation Hive · Spark · PostgreSQL · MySQL · Firebase · Git · Bash · Docker · Ansible
Web and Visualization Django · AngularJS · NodeJS · Express · Ionic · D3 · Sketch · Matplotlib · Tableau

WORK EXPERIENCE

Synapse Technology Corporation

Palo Alto

Computer Vision and Deep Learning Engineering Intern

Sep. 2018 – Dec. 2018

- Designed and implemented real-time computer vision algorithms for image segmentation and anomaly frame detection using OpenCV, increased segmentation success rate by 30%
- Built concurrent client-server GPU orchestration simulator with statistic models and Tornado, created data analytics on Jupyter Notebook, able to simulate ~1000 portals on laptop
- Optimized neural networks with TensorRT, Tensorflow-XLA, reduced prediction latency by 25%
- Prototyped multi-GPUs server architecture for ensembled model, researched on model encryption

Scotiabank · Data Science and Analytics Lab

Toronto

Data Science and Engineering Intern

Jan. 2018 – Apr. 2018

- Prototyped Neo4j graph data models, accelerated data aggregation and feature extraction ~3 times
- Re-architected graph database pipeline using Hive and pySpark, reduced data ETL time by ~8 times
- Visualized trading information using Tableau dashboards and web app using Django and D3
- Optimized Postgres search indexing, trigram matching for fuzzy search, reduced query latency by 40%

CGI Group Inc.

Markham

DevOps Intern

Jan. 2017 – Apr. 2017

- Automated continuous integration processes using JIRA, Bamboo and Bash, Python, Ansible scripts
- Initiated DevOps webpage that increased ticket turnaround time by 50%, tested Docker Swarm mode
- Prototyped progressive web app with offline mode, push notification, dynamic caching

Deloitte · DSpace Innovation Lab

Waterloo

Full-stack Product Prototyper

Jan. 2016 – Apr. 2016

- Implemented a real-time data-driven agile assessment dashboard for agile teams using Express, AngularJS and socket.io with mobile app built using Ionic
- Built a Slack chatbot with calendar integration for interactive survey using BotKit and Wit.ai
- Juggled between UI/UX designer, app architect and full-stack developer while delivering biweekly demos

PROJECTS

Stock Predictor

- Predicting stock market movement with regression, recurrent neural networks, sentiment analysis
- Literature review on application of deep learning in stock trading