LINDA ZHENG

UWATERLOO SOFTWARE ENGINEERING

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SKILLS SUMMARY

Languages: Python, Go, C/C++, SQL, Scala, Java, JavaScript, HTML, CSS, Matlab

Tools: Hive, Elasticsearch, Airflow, Amazon S3, Tensorflow, Heroku, Flask, Node.js, MongoDB, Grafana, Prometheus

WORK EXPERIENCE

Data Science Intern

September 2020 - Present

Shopify - Ottawa, ON

- · Optimized help center workflow by classifying chat transcripts and proposing solutions to routing bottlenecks
- Prototyped a help center search engine using Elasticsearch that is accessible via a REST API on a Flask server, projecting a 10% traffic reduction to support chat

Data & Relevancy Engineering Intern

January 2020 - April 2020

Wish (Context Logic) - San Francisco, CA

- Developed and tuned a product embedding model using Tensorflow and GraphSAGE (graph convolutional network)
 architecture that leverages image, text and structural features for graphs containing 7+ millions of nodes
- Built a pipeline that generates GraphSAGE embeddings for a product recommender microservice written in Go, improving click-through rate by 30%
- Optimized random walk for web-scale graphs using an early stopping algorithm, reducing latency from 32 to 6 ms
- · Designed and implemented an Airflow pipeline to generate daily click attribution reports

Software Engineering Intern

May 2019 - August 2019

Wish (Context Logic) - Toronto, ON

- Developed keyword extraction to simplify user queries using word2vec technique
- Tuned recommendations by adding Solr boosts to product fields stored in MongoDB, increasing GMV by \$20k/day
- Launched A/B tests and analysed the results using HiveQL in Treasure Data
- Built a Python package to cross-check Solr atomic updates with S3 data and refactored Solr reindexing libraries

Web Developer June 2016 – June 2018

HTBC Badminton Club - Ottawa, ON

- · Developed an automated e-registration system, speeding up registration time from days to minutes
- Created a queryable photo gallery using Google Visualizations API Query Language, boosting website views by 8%

PROJECTS

Multiplayer Online Tetris 2020

A multiplayer Tetris game where you can compete against your friends in real-time online rooms

- Connected players via WebSocket connections to a Node.js server deployed on Heroku
- Used MVC, Factory, and Strategy design patterns to ensure code flexibility and robustness

Scala Compiler 2019

A compiler that parses a subset of the Scala grammar into MIPS instructions

Implemented nested procedures, closures, CYK parsing, type checking and garbage collection

ACHIEVEMENTS

- TreeHacks Sustainable Energy Winner
- SheHacks III Best Hackathon Design
- · 2x MIT Math Prize for Girls Qualifier
- Euclid Top 5% in Canada

- 4x American Invitational Mathematics Examination (AIME) Qualifier
- 2x Canadian Open Mathematics Challenge (COMC) Repêchage Qualifier
- American Mathematics Contest (AMC) 10A Top Female in Canada
- Machine Learning Certificate, Coursera MOOC by Andrew Ng

EDUCATION