Yixin Tian

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(Contact info provided upon request)

EDUCATION

B.A.Sc. in Electrical and Computer Engineering
Class of 2022
University of Toronto
CGPA: 3.68/4.0

Related Coursework:
Probability & Random Processes
Object-Oriented Programming
Algorithms & Data Structures
Fundamental of Accounting & Finance
Engineering Economics

Self-Learning:
Coursera Stanford ML Course
Udemy Python ML Course
Google ML Crash Course (TensorFlow)

SKILLS

Software:
Python, SQL, C, C++, HTML / CSS, JavaScript, Git, Vim, Linux

Data Analysis & ML:
NumPy
pandas
beautifulsoup4
Matplotlib
Seaborn
scikit-learn
TensorFlow
NLTK

Jupyter Notebook
Google Colab
MATLAB
Octave
MS Excel

EXPERIENCE

DATA ENGINEER **May 2020 - Present**
Global Spark
- Developing Python script to automate Hack the Globe workshops scheduling
- Collecting and analyzing web traffic data using Google Analytics

SUMMER PROJECT INTERN **Jun 2020 - Aug 2020**
Engineering Career Centre
- Focused on the Industry Classification Project. Classified 1,300 employers into 41 industries & 19 sectors, performed exploratory analysis and developed strategies for expanding the PEY Co-op Program in different industries
- Automated filling 1,300 web forms with Python to improve the efficiency by 75%
- Analyzed job posting data & work term data by creating interactive data dashboards and data visualizations with MS Excel & Python
- Supported the Co-op Coordinator Team in multiple other projects such as preparing analysis visualizations & process flow, tax credit tracking, salary statistics etc.

INTERNATIONAL STUDENT EXPERIENCE AMBASSADOR **Jun 2019 - Sept 2019**
Centre for International Experience
- Interacted with incoming international students to provide guidance on university life
- Initiated data collection of received emails and identified the association b/w the FAQs

PROJECTS

WINE QUALITY CLASSIFICATION **Python (Kaggle, NumPy, pandas, Seaborn, scikit-learn)**
- Trained multi-label wine quality classifiers using logistic regression, K-NN, and SVM
- Analyzing different model's performance (F1-score) & optimizing by performing feature engineering (principal component analysis) and applying oversampling technique

PYTHON WEB DATA SCRAPER **Python (beautifulsoup4, Matplotlib, pandas, NLTK)**
- Scraped data of 1,000+ geographical articles (keywords, titles, authors, publish date) from Alberta Energy Regulator's website and performed exploratory data analysis

"GOOGLE MAP" **API, C++ (STL), GTK, Git**
- Collaborated in a team of three to develop a usable GIS for travellers
- Implemented annealing simulation algorithm and boosted path quality by 13%
- Designed and Implemented the UI using GTK graphical package
- Implemented pathfinding algorithm such as A*, Dijkstra's, BFS

FPGA IMAGE PROCESSING MACHINE **Verilog, ModelSim, Quartus, VGA**
- Implemented an image processing machine that contains 12 filter effects in total including Sobel edge detection, Gaussian blur, box blur, emboss etc. with any 24-bit coloured 160 x120 pixel-sized image (.mif)

LEADERSHIP & EXTRACURRICULARS

ORIENTATION SUB-COMMITTEE CO-CHAIR (PHOTOGRAPHY) **May 2020 - Sept 2020**
Engineering F!rosh Week 2T0
- Trained and coordinated 24 photography volunteers to photograph 800+ students during the first-ever engineering online F!rosh Week
- Photographed profile pictures for the Orientation Committee members and head leaders

MENTEE **Sept 2019 – Present**
U of T Engineering Alumni Mentorship Program