LI, Jingwei

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OBJECTIVE

To put my skills in practice of IT positions, available for a full-time job since September, 2018.

SKILLS

Technical

Data Tools	MySQL, MongoDB, Hyperion, Tableau, GGY AXIS, Anaconda, SAS
Programming	Java, C, Python, JavaScript, R, Octave, Matlab, VBA, html, CSS
Operating Systems	Windows, Mac OS and Linux

CERTIFICATES

Big Data and Social Analytics-MIT, Cambridge, MA — July – October 2016
Exam FM, P-Society of Actuaries — 6 April, 20 May 2017
Base, Advanced Programming-SAS Global Certification — 14 May, 8 June 2017

EDUCATION

Bachelor of Science (Double Major in Computer Science and Statistical Science)

University of Toronto, Toronto, ON — Sep 2016 - Aug 2018
Dalhousie University, Halifax, NS — Sep 2015 - Aug 2016
University of Macau, Macau, China — Sep 2013 - Jan 2015

WORK EXPERIENCE

Junior Application Programmer- Ministry of Education, North York, ON — May 2018 – Aug 2018

- Supported existing and new applications with Spring and MyBatis framework.
- Used Cloud Service Data Sync to transfer information between frontend and backend platforms.
- Delivered new functions for on-going development of Web App and backend functions.
- Modified HTML, MySQL and Java code to optimize application process in full-stack logic.

Junior Market Analyst-IESO, Oakville, ON — May 2017 – Aug 2017

IESO: Independent Electricity System Operator

- Performed ETL jobs from multiple data sources including Hyperion, Tableau, Excel
- Modeled and analyzed various data resources regarding to electricity market
- Delivered weekly presentation to colleagues and supervisor about past week issues
- Produced word records about abnormal events generators reported

RESEARCH EXPERIENCE

Researcher-University of Toronto, Toronto, ON — Nov 2017 – May 2018

Machine Learning to Predict Economic Indicators Using Mobile-Phone Data

- Researched about application of call data to social-economic proxy for individual's daily trajectory
- Improved machine learning algorithms to train applied data.
- Matched the expected regression model with the specific dataset by generating actual output with data tools in comparison with expected results.
- Reported about the potential of the dataset by updating the model information.

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PROFESSIONAL DEVELOPMENT AND PROJECTS

Advanced Web-Based System-Athabasca University, Athabasca, AB July 2018 – Aug 2018

- Created an XML version of my resume and transformed by XSLT to render it in a browser.
- Constructed a web-based tutorial application and online quiz system by HTML, CSS and JavaScript.
- Built slideshow web application to display photos in various modes using Canvas and JSON data.
- Developed measurement converters, mortgage calculator and cGPA calculator using AJAX dynamic tech.

Full-Stack Software Engineer in Training-Projek, Futurera, Toronto, ON Apr 2018 – May 2018

Projek is a matching platform where people can put or find projects.

- Designed the workflow of core features including sign-up, sign-in, and sign-out.
- Implemented the UI of core features with Html5, ReactJS and React redux.
- Updated the styles of the UI using CSS3/SCSS and bootstrap.
- Implemented the business logics of core features using NodeJS and MySQL.
- Ensured code qualities by performing code reviews on github with the other team members.
- Participated in the weekly sprint to prioritize and assign tasks.

Financial Engineering-University of Toronto, Toronto, ON Sep 2017 – Dec 2017

- Built recombing binomial tree model for European options to hedge GMAB by risk-neutral analysis and replicating portfolio construction.
- Implemented Newton-Raphson method in fees valuation of VA GMAB.
- Simulated Monte Carlo Model with Black Scholes formula and stochastic process.

Machine Learning-Coursera, Stanford Online Training July 2017 – Sep 2017

- Applied linear regression, logistic regression to different datasets.
- Utilized one-vs-all logistic regression and backpropagation algorithm for neural networks to recognize hand-written digits.
- Practiced regularized linear regression in studying models with different bias-variance properties.
- Used support vector machines to build a spam classifier.
- Implemented the K-means clustering algorithm to compress an image.
- Implemented the anomaly detection algorithm to detect failing servers on a network.

Big Data and Social Analytics-MIT, Cambridge, MA July 2016 – Oct 2016

- Demonstrated the population density distribution in a world map.
- Formed chartes to indicate data difference between different countries and regions.
- Illustrated the route frequency which the object of study passed during a recent period differentiated by color in the USA geographic map.
- Predicted the location of people by analyzing the previous location data within specific time intervals on a daily basis.

Java Projects-Dalhousie, Halifax, NS Sep 2015 – April 2016

- Simulated bank functions by storing and extracting different information.
- Simulated robots' competition game in a squared map.
- Solved incomplete sudoku problem by recursion or loop to get the possible solution in a 9x9 grid.