Wen (Joyce) Li

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EDUCATION

MSc in Applied Computing (Data Science Concentration)   September 2021 – December 2022 (expected)
University of Toronto, Department of Computer Science

Courses: System modelling and Analysis; Time Series Analysis; Data Science Methods, Collaborations, and Communications; Topics in Computational Social Science; Algorithms for Collective Decision Making
CGPA: 4.0/4.0

Honor Bachelor of Science   September 2016 – September 2021
University of Toronto, Computer Science Specialist, Statistics Major
CGPA: 3.94/4.0

RELATED EXPERIENCE

Caseware International, Toronto, Canada   May 2019 – May 2020
Software Developer, Cloud Engagement Team - Server Squad
- Worked on cloud platform for accounting firms to manage engagement efficiently, developed and maintenance related service via different programming tools
- Improved the data fetch latency of the platform by optimizing search query on transactions, resulting in a 5-10% speed improvement
- Implemented an internal testing platform by using AngularJS and enabled developers to access API without extra set-up, thus optimizing testing time
- Corrected inconsistent data structures based on partial observations by introducing one-step conversions on relevant datasets and fixed relevant production bugs

Deloitte Omnia AI, Toronto, Canada   May 2022 – Present
Data Science Intern, Acquisition AI Project
- Worked on the project which provided a sorted list of postal codes by profitability
- Feature engineering on the large client and manifold datasets and implemented an algorithm to make the interpretation of the model better from feature selection
- Implemented different optimization metrics and related predictive models on sorting the profitability of postal codes
- Built data pipeline to start from raw source excel files to final sorted list in AWS, which saves a large amount of time and manual actions

RELATED PROJECTS

Time Series Analysis on Global temperature (R Project)   Nov 2021 – Jan 2022
- Analyzed the global temperature from 1960 to 2019, and made prediction on future trend of global temperature to allow environmental scientists to better investigate the global warming issue
- Identified the dependence orders of an ARIMA model based on ACF of the transformed global temperature, proposed two estimated models and compared the performance checkers of model to select best model can make forecasting on global temperature in future time periods
- Performed all necessary diagnostics for the proposed model to guarantee no potential problems for the selected model like overfitting, non-normal distribution of noise, dependent covariance function etc.
- Forecasted the global temperature into the future time periods ahead based on selected model, provided the 95% prediction intervals for each of the 10 forecasts and left comments on our predicted result

US Election – The change of Republican votes ratio from 1976 to 2020   January 2021 – May 2021

- Applied web scrapping, data visualization and machine learning methods on related dataset to investigate the relationship between Republican votes ratio and some factors like educational levels, average income
- Analyzed the relationship between change of Republican votes ratio and some factors by applying some machine learning methods (like decision tree and linear regression) to get conclusions, and linear regression provided a linear formula for the change of Republican votes ratio, decision tree gave us a more complicated results from results classification
- Optimized the model with correlated parameters by introducing control variables experiment to conduct causality instead of correlation, thus making result more reliable

TECHNICAL SKILLS

- Programming Languages: Python, Java, C, R, JavaScript, TypeScript, HTML, SQL
- Technologies Experience: AWS, S3, Git, MySQL, Jupyter notebook, MongoDB, Redis, OpenAPI, Swagger, JSON, AngularJS, JOOQ and HTTP request/result

Dear Hiring Manager,

I'm excited to be applying for the Software Developer position at Rogers. As someone who is curious and innovative, I thrive on applying knowledge or learning new theories to solve the practical problems in industry. I'm thrilled at the opportunity to show off my technical expertise and cooperation abilities as part of the Rogers team.

While working as a software developer intern at Caseware International, I have taken similar responsibilities as full-time developers to implement new functions and fix bugs. From this experience, I am familiar with how to learn new industry technologies quickly, and have improved my business communication and cooperation abilities, which can make me better adapt to the role of Software Developer at Rogers. In the final evaluation of this internship, I received excellent evaluation results from the team members and team leaders for "outstanding contributions".

In order to learn more theoretical knowledge, I chose to continue to study the Master of Applied Computing program after graduation at UofT. This program provides many in-depth theoretical courses and provides an 8-month internship program that allows us to apply the learned theory to industry. Currently, I am working as a Data Analyst intern at Deloitte, and this will give me a better understanding on how to use machine learning packages to solve business problems and how to maintain a balance of teamwork and independent work, which will make me qualified for this position.

Thank you for your time and consideration. I'm looking forward to learning more details about the Software Developer position at Rogers. I'm excited about the opportunity to leverage my unique range of skills, and for Rogers.

Sincerely,

Wen Li

Hi Matt, I'm Wen who talked with you yesterday about hiring positions for BlueCat. Really thank you for sharing those information last night. I'm currently working in Deloitte as data science Intern and also looking for data science related position. Here is my resume.

Again, I'm really appreciated for your support and help!