

Joanna Lu

3A COMPUTER SCIENCE AND STATISTICS

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Qualifications

Languages C++, Python, C, SQL, Java, Javascript, HTML, CSS, R

Tools Github, Unix, Microsoft Azure, matplotlib, Hive, Photoshop, Illustrator, Sketch

Experience

SAP SE

Waterloo, ON

PRODUCT MANAGEMENT INTERN (IN-MEMORY DATABASE TEAM)

MAY 2017 - AUG. 2017

- Lead communication between development features and consumer feedback to implement deployment strategies/timelines
- Conducted competitive win-loss analysis and analyzed competitive conditions of market sector using SQL and Excel
- Created interactive data visualization demos using D3 and Jupyter, in addition to tutorials on system features

Capital One

Waterloo, ON

DATA SCIENTIST INTERN (CHAT ANALYST TEAM)

MAY 2016 - AUG. 2016

- Queried and constructed SQL tables to clean and restructure raw consumer chat information. Performed data analysis reports on chat-agent data and customer satisfaction rates mined from chat surveys
- Built aggregated data pipelines between Redshift and MongoDB for front-end data visualization tools and charts
- Improved text categorization model by 8% for agent-customer chat conversations through data test training and querying

Honors & Awards

2017 **TD First Prize - Hack the North**, For mental health hackathon project on sentiment and data analysis

Waterloo

2017 **Grace Hopper 2017 Conference Grant**, Selected for leadership involvements & academic excellence

UWaterloo

2015 **American Mathematics Contest, Top 5%**, Qualifier for AIME Invitational round

M.A.A.

2015 **Euclid Mathematics Contest**, School Champion, Top 10% With Distinction

UWaterloo

Projects

Log(me)

Waterloo, ON

HACK THE NORTH - TD FIRST PRIZE

SEPT. 2017

- Built a web platform in React for a mental health smart journal that allows users to log daily emotions and events.
- Used Microsoft Azure's Cognitive Services to parse perform sentiment analysis and provide relevant recommendations
- Uses Google Firebase's database to create a data visualization dashboard to visualize trends and correlations of user

ESC-it

Waterloo, ON

C++ GAME USING MVC AND DESIGN PATTERNS

SEPT 2016 - DEC. 2017

- Implemented a C++ game using a Model View Controller with various classes to support and monitor display, dungeons, enemies, players and etc. with customizable features (Level-Ups, Potions, Power-Ups) with Decorator and Factory design patterns

Happy Exam Thoughts

Waterloo, ON

FACEBOOK MESSENGER DATA MINING AND SENTIMENT ANALYSIS

AUG. 2016 - SEPT. 2016

- Mined (my personal) Facebook Messenger data into HTML form; extracted and separated conversations into parseable data
- Used IBM's AlchemyLanguage API to categorize message sentiments and matplotlib to analyze sentiments during exam time

Education

University of Waterloo

Waterloo, ON

BACHELOR OF MATHEMATICS, DOUBLE MAJOR IN COMPUTER SCIENCE AND STATISTICS

SEPT. 2015 - PRESENT

- Awarded the President's Scholarship with Distinction for entrance average above 95%.
- Selected Coursework: Data Structures and Algorithms, Management Science, Mathematical Statistics, Databases

Leadership

Waterloo Data Science Club

Waterloo, ON

DIRECTOR OF EXTERNAL RELATIONS

AUG. 2016 - PRESENT

- Responsible for securing outside sponsorships for the Data Science club and maintaining contact with existing relations
- Organizing speaker events and workshops, such as Facebook, Capital One and Uber, to general members

Acabellas

Waterloo, ON

SOPRANO

SEPT. 2015 - APR. 2016

- Singer in an all-female A Capella choir. Qualified for the International Championship of Collegiate A Capella Choir.