

Jane Z. Zhao

430-9009 Cornerstone Mews, Burnaby, British Columbia, Canada. V5A 0B9

☎ 778-859-7615 | ✉ zijinzhao0529@gmail.com | 📱 kyliewing | 🌐 jane-zijin-zhao-2aa333135

"Wisdom is to the mind what health is to the body."

Education

Simon Fraser University

M.Sc. IN COMPUTING SCIENCE

- Prof. Jian Pei's Intelligent Data Engineering and Analytics Lab (IDEAL)
- Cum. GPA: 3.73/4.33

B.C., Canada

Sep. 2015 - Exp. Aug. 2017

Nankai University

B.Sc. IN COMPUTER SCIENCE AND ENGINEERING

- Cum. GPA: 88.01/100; Ranking: 4/34

Tianjin, China

Sep. 2011 - Jul. 2015

Technical Skills

Professional Domain Data Mining, Machine Learning, Statistics

Programming Python, C/C++, Matlab, SQL, R, Java, Android, HTML, CSS, JavaScript, Visual Basic, \LaTeX

Databases Oracle, SQL Server, MySQL

IDEs Eclipse, Microsoft Visual Studio, SQL Server Management

Technical Work Experience

Pacific Blue Cross | BC Life

COMPUTER SCIENTIST INTERN

B.C., Canada

Jun. 2015 - Dec. 2015

- Analyzed the Drug Claims Data Set and built a time-to-event prediction model for Pharmacy Services Department's data-driven decision making.
- Wrote SQL queries to extract essential data from the operational database and analyzed statistical features.
- Applied and tuned the time-to-event statistical prediction model in R and achieved high prediction accuracy.
- Gained experience and knowledge about data scientist field.

Sinotrans Limited

INFORMATION MANAGEMENT TEST INTERN

Beijing, China

Aug. 2014 - Sep. 2014

- Performed and analyzed tests on the Customer & Supplier Information Management Platform to identify potential problems.
- Analyzed initial log to reported the issues to feature designers to improve the quality of hand code.

Research

Research Subject: Noisy Label Classification Problem

CORE MEMBER & RESEARCHER

B.C., Canada

May. 2016 - PRESENT

- Worked with Prof. Jian Pei to build a robust classifier on data with noisy labels and correct the noisy labels simultaneously.
- Proposed a novel and robust classification algorithm based on Markov Chain to handle noisy data.
- Implemented the algorithm in MATLAB for base and speed up version.
- Resolved algorithm outperformed traditional Logistic Regression, SVM and other cutting-edge algorithms in terms of classification accuracy.

Research (Continued)

Research Subject: Finding K-Oppositive Cohesive Groups From Signed Networks

B.C., Canada

MEMBER & RESEARCH ASSISTANT

Nov. 2015 - Feb. 2016

- Supported the research team of five and proposed an algorithm to solve the novel problem which is finding K-oppositive cohesive groups from signed networks.
- Participated in case study portion of experiment and wrote Python scripts for mining data.
- Accomplished paper was published on the 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining.

Research Subject: Compression Algorithm for Inverted Indexes of Search Engine

Tianjin, China

RESEARCH ASSISTANT OF BAIDU-NANKAI JOINT LAB

Jun. 2014 - Jun. 2015

- Investigated and improved compression algorithms for inverted indexes of Search Engine.
- Designed an algorithms to enhance conventional Simple-16, 32-bit-mix-index and 64-bit compression algorithms to compress term position information in inverted indexes.
- Streamlined algorithms exceeded others in either compression effectiveness or decompression efficiency.

Project Experience

Missing Words Prediction - Data Mining - SFU

B.C., Canada

PROGRAMMER

Nov. 2015 - Dec. 2015

- Designed clustering and classification methods to predict missing word.
- Applied K-means, SVD and Associative Classification algorithms for clustering analysis and prediction.
- Finalized algorithm achieved 96.7% in terms of cluster analysis and 11.5% prediction improvement comparing baseline algorithms.

Fast Circle (Your Social Assistant On Mobile Phone) - Personal Project

Tianjin, China

PROJECT LEADER

Apr. 2013 - Mar. 2014

- Developed an Android App that allows users to share contact information within a group automatically.
- Used Java on Android SDK platform to implement functional features.
- The APP became popular and was widely used within campus.
- Applied software copyright for "Fast Circle".

Honors & Awards

INTERNATIONAL

2014 Winner, Google Anita Borg Scholarship

Beijing, China

2014 Meritorious Winner, 2014 Mathematical Contest in Modeling (MCM)

Bedford, U.S.A

NON-INTERNATIONAL

2015 Winner, CMPT Grad Fellowship

B.C., Canada

2013 Winner, Top Ten Entrepreneurial Team of China Entrepreneurial Model into Tianjin and Chinese Youth Mobile Internet Business Competition Contest

Tianjin, China

2013 Winner, National Motivational Scholarship

Tianjin, China

2012 Winner, Merit Student of Nankai University

Tianjin, China