

ZEYONG JIN

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EDUCATION

Simon Fraser University

Sep 2018 - Apr 2022

Bachelor of Science (with Distinction)

Burnaby, BC

- **Program:** Major in Computing Science, Concentration in Information Systems, Minor in Mathematics.
- **Grade:** Cumulative GPA of 3.62.
- **Related Courses:** Data Structures, Algorithms, Computer Systems, Operating Systems, Software Engineering, Requirements Engineering, Database Systems, Computer Graphics, UI Design, Natural Language Processing, Computational Data Science, Data Mining, Linear Optimization, Number Theory, Graph Theory, Abstract Algebra.

Fraser International College

May 2017 - Apr 2018

UTP Stage II: Science

Burnaby, BC

- **Program:** Major in Computing Science.
- **Grade:** Cumulative GPA of 3.92.
- **Award:** Dean's Honour Roll (2017 Summer).
- **Related Courses:** C++ Programming, Calculus, Discrete Mathematics, Linear Algebra.

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Java, Python, MATLAB, Assembly, R.
- **Development Tools:** Microsoft Visual Studio, IntelliJ IDEA, Android Studio, PyCharm, R Studio.
- **Database Systems:** Microsoft SQL Server 2018, MySQL.
- **Operating Systems:** Linux (*Ubuntu*), Windows.
- **Version Control Tool:** Git (*GitLab*, *GitHub*).
- **User Interface Design Tools:** Balsamiq, Figma.
- **Others:** L^AT_EX, R Markdown, Microsoft Office Suit.

TRANSFERABLE SKILLS AND INTERESTS

- **Strong Execution Ability:** Able to translate strategy and ideas into execution.
- **Communication and Teamwork Skills:** Convince students from different countries in a group.
- **Time Management Ability:** Finish assigned work on time via making prioritization and planning.
- **Endless Curiosity:** Welcome and willing to learn new knowledge and develop new skills.
- **Languages:** Mandarin (*Native*), English (*Proficient*).
- **Interests:** Reading, Writing, Coding.

PROFESSIONAL EXPERIENCE

Simon Fraser University

Sep 2021 - Dec 2021

Teaching Assistant, School of Computing Science

Burnaby, BC

- Helped instructors mark homework and exams using the platform of Canvas and provided feedback to both instructors and students on time.
- Scheduled online office hour per week to assist undergraduates with computing science-related questions.
- Course Conducted: CMPT 115 (*Exploring Computer Science*), supervised by Dr. Diana Cukierman.

Simon Fraser University

Jan 2021 - Apr 2021

Teaching Assistant, Department of Statistics and Actuarial Science

Burnaby, BC

- Helped instructors mark homework and exams using the platform of Crowdmark and provided feedback to both instructors and students on time.
- Answered students' questions about grading and finished the assigned work on time.
- Course conducted: STAT 203 (*Introduction to Statistics for the Social Sciences*), supervised by Dr. Harsha Perera and Mr. Scott Pai.

ACADEMIC PROJECTS

Prompt-based Text Matching Methods for Fake News Stance Detection

Sep 2021 - Dec 2021

CMPT 413/713: Computational Linguistics (Natural Language Processing)

Burnaby, BC

- Used the Bidirectional Encoder Representations from Transformers (*BERT*) model to process news headlines and news article body and based on fine-tuning the model to continue training the BERT model for detecting the stance relationship between news headlines and news article body.
- Implemented a fake news classification model based on BERT and compared the results of the BERT model with four baseline algorithms.
- Processed Fake News Competition (*FNC*) task data via BERT, and obtained an accuracy of 90.37%.
- Coded in Python via the platform of Google Colab and instructed by Prof. Angel Chang. Project available at <https://github.com/zeyongj/Fake-News-Stance-Detection>, presentation available at https://www.youtube.com/watch?v=DtKjSMv31RQ&ab_channel=ZeyongJin.

COVID-19 Patient Outcome Prediction

Jan 2021 - Apr 2021

CMPT 459: Data Mining

Burnaby, BC

- Developed a program to predict the most possible outcome, namely recovered, hospitalized and non-hospitalized of a COVID-19 patient.
- Showed visualizations, such as a heat map of confirmed cases worldwide and statistics for all attributes recorded in datasets.
- Built, evaluated, and proceeded parameter tuning on classifiers of Light Gradient Boosting Machine *LightGBM*, Support Vector Machine (*SVM*) and Multilayer Perceptron (*MLP*), and acknowledged that LightGBM model has the best prediction accuracy of 0.8840 and F1 score of 0.8391. In contrast, the SVM model has the worst prediction accuracy of 0.8178 and worst F1 score of 0.7436.
- Coded in Python via the platform of Google Colab and instructed by Prof. Martin Ester. Project available at <https://github.com/zeyongj/Prediction-of-The-Outcome-of-A-COVID-19-Patient>.

Practical Parent Application

Sep 2020 - Dec 2020

CMPT 276: Introduction to Software Engineering

Burnaby, BC

- Developed an app to help parents to determine the order of their children to do a certain task, using Android Studio as the integrated development environment to implement features.
- Created a feature for parents to use a game of flipping a coin to decide the turn of children for a certain task and check the status of each task.
- Provided a feature of regulating breathing rhythm for parents, helping parents to do standard “hale in” and “breath out” for certain times.
- Prepared documents, including user stories and development documentation acting as the user manual, and instructed by Dr. Brian Fraser. Project available at <https://github.com/zeyongj/Practical-Parent-Application>.

Improving Dijkstra's Algorithm

Sep 2019 - Dec 2019

CMPT 307: Data Structures and Algorithms

Burnaby, BC

- Found the shortest distance and path of any two places in a city using Dijkstra's, A* and Landmark Algorithms and showed the savings if A* and Landmark Algorithms are used.
- Exported all the results as a text file.
- Coded in C++ via the integrated development environment of Microsoft Visual Studio 2017, and instructed by Prof. Binay Bhattacharya. Project available at <https://github.com/zeyongj/Improving-Dijkstra-Algorithm>.

PERSONAL PROJECTS

Countdown Timer Application

Sep 2020 - Oct 2020

- Created an Android application to make users set up a countdown timer as they want, and the user could directly see how much time is left by the number on the screen.
- Managed the timer, so when it comes to an end, the user will receive a notification with an alarm.
- Coded in Java, using Android Studio as the integrated development environment. Code available at <https://github.com/zeyongj/Count-Down-Timer-Android-App>.