Shan Chen

46 Curtis St, Waltham, MA 02453 | (507) 210-1913 | shaaan@brandeis.edu | Web: shanchen.online

EDUCATION

Brandeis University, Waltham, Massachusetts **Expected: May 2022**
Master of Science, Computational Linguistics

St. Olaf College, Northfield, Minnesota May 2020
Bachelor of Arts, Mathematics, Japanese, Linguistics Concentration Majors/Overall GPA: 3.7/4.0

- Honors/Awards: Cum Laude with distinctions, Japanese National Honor Society, Pi Mu Epsilon, JASSO Scholarship, National Japanese Exam Silver Prize, Henry Luce Research Grant
- Semester abroad: Nagoya University School of Engineering, Nagoya, Japan

RELATED COURSES

Algorithms & Data Structures, Applied Algorithms, Graph Theory, Neural Computation, Natural Language Annotation for Machine Learning, Object-Oriented Software Design, Advanced Programing Techniques in Java, Statistical Machine Learning, Natural Language Processing, Syntactic Theory, Semantics, Phonetics

LANGUAGES AND FRAMEWORKS

Python, Java, C++, R Studio, Flutter, Golang, HTML & CSS, JavaScript, SQL, Tensorflow, Tableau
Chinese (Native), English (Native), Japanese (Professional working proficiency), German (Elementary)

WORK EXPERIENCE

Data Scientist Intern, Elphi, Massachusetts **Expected: Present – February 2021**

- Working on Real-time Dynamic data with online Tableau and Machine learning algorithms.
- Integrated the algorithm into the main app using Kubeflow Pipeline to achieve systematic automation.

Software Developer, Unismart・ユニスマ, Tokyo, Japan June 2020 – Sept 2020

- Developed a cross-platform app using Flutter and Firebase framework designed to help to connect 10k+ university students during the COVID-19 pandemic.
- Support real-time push notification, messaging, coursemate matching system using Firebase API.
- Designed customer analytics functions to assess customer acquisition and app engagement gaining over 91 percent positive feedback.

Linguistics Research Assistant, St. Olaf College, Minnesota June 2018 – July 2019

- Conducted data analysis and synthesized data into a published paper (publication listed below). The Paper was published as a linguistics book chapter in 2019 by Lexington Press as "The Development of Willingness to Communicate in L2 Chinese Writing".
- Generated and analyzed Japanese web sourced linguistics data for Ito, Ph.D.'s linguistics research.

PROJECTS

St. Olaf Events Organizer October 2019 – December 2019

- Automated college poster based events organizers to help club leaders to share their campus events.
- Leveraged frameworks: Qt & C++ front & backend implantations, SQLite CRUD conventions.

Computational Sociolinguistic Analysis of Cross-cultural Celebrity Emoji Usage March 2019 – Present

- Created machine learning models with neural networks, SVM, KNN, and random forests to predict emoji usage based on tweets' sentiment scores, implementing LSTM model summariazing the tweets.
- Analyzed celebrities' emoji use across cultures and compared the result to common users.
- Proven differences among usages, developing a classifier to predict tweet goals through emojis.

Exploration of League of Legends professional winning strategies May 2020 – June 2020

- Using 10 different statistical machine learning models including, Bagging, Penalized Regression, SVM, Random Forests, and Ada Boosting, predicting win rate. Got 82% (improved by 9%) accuracy rate with the voting system among these models as results explained pro-players' scientific playing styles.