

Shan Chen

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EDUCATION

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| 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 |
| <ul style="list-style-type: none">Honors/Awards: Cum Laude with distinctions, Japanese National Honor Society, Pi Mu Epsilon, JASSO Scholarship, National Japanese Exam Silver Prize, Henry Luce Research GrantSemester 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(C++&Java), Information Retrieval, Statistical Machine Learning, Natural Language Processing, Syntactic Theory, Semantics, Phonetics

LANGUAGES AND FRAMEWORKS

Python, C++, Java, R Studio, Flutter, Firebase, Flask, HTML & CSS, NoSQL, Pytorch
Chinese (Native), English (Native), Japanese (Professional working proficiency), German (Elementary)

WORK EXPERIENCE

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| Data Scientist Intern , Elphi , Cambridge, Massachusetts | Dec 2020 – Feb 2021 |
| <ul style="list-style-type: none">Working on Real-time Dynamic data with Tableau and Machine learning loan prediction algorithms.Integrated the algorithm into the main app using GCP Pipeline to achieve systematic automation. | |
| Software Developer , Unismart · ユニスマ , Tokyo, Japan | June 2020 – Sept 2020 |
| <ul style="list-style-type: none">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 |
| <ul style="list-style-type: none">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

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| St. Olaf Events Organizer | Oct 2019 – Dec 2019 |
| <ul style="list-style-type: none">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 |
| <ul style="list-style-type: none">Created machine learning models with neural networks, SVM, KNN, and random forests to predict emoji usage based on tweets’ sentiment scores, implementing LSTM model summarizing 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 |
| <ul style="list-style-type: none">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. | |