

Chongyi Xu

Male Age22 Bachelor

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Job Preference: Algorithm

EDUCATION

2015.09 - 2019.06 University of Washington Seattle, WA Applied and Computational Mathematical Science

Courses: Data Structure, Algorithm Design and Analysis, WEB Develop, Database, Machine Learning, Mathematical Modelling Optimization, AI, Linux, Discrete Math and more

INTERNSHIP

2018.08-2018.10 Welian Hangzhou, ZJ WEB Front-end Engineer/Software Testing Internship

- Responsible for H5 Company Website maintenance. And **SEO** on website keywords according to visits.
- Individually **developed H5 static and active web page** for APP sale event.
- Responsible for IOS **APP testing**. Specify BUGs and keep tracking to ensure quality.

2017.08-2017.10 Lenovo Shanghai Data Engineer Internship

- Responsible for designing **SQL** Database table relationships and optimizing the performance.
- Responsible for Front-end Web page testing. Specify BUGs and provide analysis.

PROJECTS

2018.09-2018.12 University of Washington Seattle, WA

- Responsible for the **optimization** of assigning student candidates to TA positions for Math Department and CS Department.
- Use the **data sampling** from candidate preferences and professor preferences in two years.
- Analyze and Test various **assigning algorithms** including Stable Marriage Algorithm and Hungarian Algorithm
- Compare the result obtained from real data with the model performance based on Monte Carlo Simulation to finalize an optimization and get accepted from Department.

2017.09-2017.12 University of Washington Seattle, WA

- Have a try on trending topics including eigenfaces, handwriting recognition and text labeling.
- Use Singular Value Decomposition and Correlation Matrix to obtain eigen features from gray faces.
- Use the handwriting recognition models trained on single layer NN and multiple layer NN to make a comparison on accuracy and make analysis.
- Use real news and fake news fetched from internet to perform Naive Bayes, SVM, Decision Tree and KNN. Use word counter and tf-idf to vectorize the text input and compare the performance of difference combination with analysis.

LANGUAGES

- Chinese, native speaker
- TOEFL 95, 6 years study experience in US, native level speaking and writing skill

- Japanese N1 170, able to communicate, read and write in business level

COMPITETION

2019 Def Hackathon Microsoft Programming Contest at Seattle 7th place

- Responsible for developing a Google Chrome extension
- Individually developed **JS** and **PHP** for Back-end

2018 Google Games at Seattle 6th place