

Yating Wu

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The University of Texas at Austin

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EDUCATION

The University of Texas at Austin(*GPA: 3.92/4.00*)

Austin, TX

M.S./Ph.D. in **Electrical and Computer Engineering**

Jan. 2020 - Now

Supervisor: [Prof. Jessy Li](#) and [Prof. Alex Dimakis](#)

Research Interest: Natural Language Processing, Text Elaboration, Multilingual, Grammatical Error Correction

Related courses: Research in Computational Linguistic, Spoken Language Technologies, Machine Learning, Data Mining, Distributed Systems, Multicore Computing, Operating System

Dalian University of Technology(*GPA: 91, Ranking: 1/45*)

Dalian, China

B.Eng. in **Computer Science & Technology** and B.A. in **Japanese**(5 year degree)

Sept. 2014 - July 2019

Related courses: Object-oriented Programming, Data Structure and Algorithm, Compile Principles, Computer Networks

The University of Tokyo

Tokyo, Japan

Undergraduate Exchange Student in **Information & Communication Engineering**

Sept. 2017 - Aug. 2018

Studied and Researched at [Aizawa Yamasaki laboratory](#)

Related courses: Programming Languages, Operating Systems, Computer Architecture

WORKING EXPERIENCE

Amazon

Austin, TX

Software Develop Engineer Intern

June 2021 - Sept. 2021

- Implemented a **Ranking System** for ranking the events based on its popularity, by **Java**. I wrote over **10,000** lines java code and over **97% coverage**.
- Designed and Implemented a Ranking Data **DynamoDB** table for saving viewership data and filter events, **Java**.
- Set up **Lambda** to automatically pulling and putting latest information to Database, by **Java**.
- Contributed to the main team repository to sort events based on viewership data, **Java**.
- Ingested with inner service to create **two new carousals** to provide this service for new customers, **Java**.

RESEARCH & PROJECT

Investigating inverse problem in speech adaptation through invertible neural network

Austin, TX

-Developer

Oct. 2021 - Dec. 2021

- Generated motor commands(articulator parameters), their formant frequencies and corresponding bandwidths pairs with Maeda vocal tract synthesizer as dataset, by **Python**.
- Set up invertible neural networks to infer the parameters and validate the correctness by replicating examples given by [Ardizzone](#), by **Python**.
- Tuned on different settings and used 3 metrics to evaluate the model - MSE loss of forward process, MSE loss of inverse process, validity of parameters.
- Got a best result of forward process MSE - 250.80HZ, inverse process MSE - 214.73HZ, inverse parameter validity 95.5%.

Semantic Search Engine and QA System Based on COVID-19 Dataset

Austin, TX

-Lead Developer

Mar. 2020 - May 2020

- Preprocessed data to get titles and abstracts of the papers, by **Python**.
- Applied multiple word embedding methods(**Doc2vec**, **BERT**) to get word vectors to find top related titles of papers to query, by **Python**.
- Implemented different searching methods(**BM25**, **GoogleUSE**, **SciBERT**) to find related content in selected papers, by **Python**.
- Built a **QA system** based on **BERT** and **BART** that can answer key scientific questions regarding **COVID - 19**.

Collaborative Online Text and Graphic Whiteboard System

Dalian, China

-Lead Developer

Jan. 2019 - Apr. 2019

- Realized multiple ways(graffiti & chat) for users to collaborate, by **C++**.
- Implemented history loads and client-server part, by **C++**.

SKILLS

Computer Languages: Java, Python, C/C++, JavaScript(TypeScript), Bash, SQL, HTML/CSS, Kotlin, \LaTeX

Technologies: Spoken Language and Audio Processing, Data Mining Algorithms, Machine Learning, Parallel

Algorithms, Android Development, React Native, Web Development, Cuda Programming, AWS, Mockito, Guice,

DynamoDB