

# Kaiyuan Wei

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## EDUCATION

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**Northeastern University**, Boston, MA Jan 2021 - May 2023  
Khoury College of Computer Sciences GPA: 3.54/4.0

Master of Science in **Artificial Intelligence**

courses: Machine Learning, NLP, Information Retrieval, OOP, Algorithms, AI Ethics

**Northeastern University**, Boston, MA Sep 2018 - Aug 2020  
Bachelor of Science in **Information Technology** GPA: 3.72/4.0

courses: Data Analysis, Java, Database Websites, Web & Mobile Development, MySQL

## SKILLS

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**Language:** Python, Java, R, JavaScript, C++, SQL

**ML Tools:** Jupyter Notebook, Google CoLab, AWS SageMaker, TensorFlow, Keras, PyTorch, SK-learn, NumPy, Pandas, Matplotlib, Seaborn

**Models:** XGBoost, Decision Tree, Random Forest, SVM, KNN, MLP, PCA, RNN, LSTMs, GRU, Attention, Transformer, BERT, spaCY, NLTK, CNN, ResNet, ResUNet

**Data Tools:** MySQL, Mongo DB, Redis, Elasticsearch, Scrapy, Docker, Ubuntu/CentOS

**Web Tools:** HTML/CSS, Bootstrap, jQuery, Ajax, React, TypeScript, NodeJS, Flask, Django

**Certificate:** AWS-Certified Machine Learning Specialty, Udemy-Elasticsearch and Elastic Stack

## Working Experience

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**Full Stack Engineer** | Napa Reserve Wines (Shanghai, China) Jun 2013 - Jan 2018

- Adopted dynamic technique (JavaScript/CSS/jQuery) for company website;
- Designed and implement the backend structure of website using Python & Django;
- Improved performance of SQL server by balancing I/O workload & add slave server;

## PROJECTS

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**Vertical Search Engine** [link | github] Apr 2023

- Rapidly scraped large number of webpages using multiple threads, stored result in Elasticsearch;
- Designed interface to retrieve and analyze docs from ES that related to query terms.

**Q&A ChatBot** [link | github] Dec 2022

- Integrated End-To-End Network with LSTM model to achieve a Q&A ChatBot;
- Deployed trained model with Flask on webpage, achieved interactive inference;
- Run the project application as a system service on Ubuntu OS.

**Health Prediction** [link | github] Nov 2022

- Transferred unstructured data from sensor record into tabular format data for ML algorithm;
- Achieved online inference by deploying project on AWS EC2 instance.

**Movie Recommend Model** Nov 2022

- Trained the model to process and analyzed the data info of all movie comments;
- Recommended similar movie according to the query from user input and movie cosine distance.

## ACTITITIES

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course: Elasticsearch and the Elastic Stack (Udemy)

course: Intro to TensorFlow for Deep Learning (Udacity)

course: Natural Language Processing with Python (Udemy)