

Zhengxu Wang

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Portfolio: <https://zhengxu.pages.dev/>

EDUCATION

Boston University, <i>Master of Computer Science</i> (GPA 3.71)	Boston, U.S.	Sep 2022 - Jan 2024
Beijing University of Technology, <i>Bachelor of Computer Science and Technology</i>	Beijing, China	Sep 2017 - Jul 2021

SKILLS

Languages: (BackEnd) Python, Java, C++; (FrontEnd) JavaScript, TypeScript, SwiftUI; (Other) SQL, Bash
Frameworks: (Dev) React, Node.js, Flask, QT; (AI) PyTorch, TensorFlow; (Deploy) Spring Boot, Nginx, Docker, Kubernetes, Redis, ElasticSearch; (Cloud) AWS, Azure; (DB) MySQL, OracleDB, SqlServer, Neo4J; (Tool) PowerBI/Automate

WORK EXPERIENCES

Software Engineer Intern (Co-founder) SwiftUI, AWS EKS, Xcode, Git **May 2023 – Present**
SocialTech Labs Inc. New York, NY

App Store: [BestFriendsNetwork](#) -- An app about friendships

- Using **SwiftUI** created Front-end new features including drawing and send to friends, save messages as dairy, and a calendar view of emotional dairy etc.
- Writing Back-end **Restful APIs** using **Golang** and deploy it as **docker** image in **AWS EKS**, also used **Redis**, **DynamoDB**, **S3**, **EC2**.

Software Engineer Intern (Automation) PowerAutomate, PowerBI, Bash **May 2023 – Aug 2023**
Dell Technologies Inc. Global Translation Team--EMC

Optimize manual work into an automatic workflow

- Using **PowerBI** connect to **SqlServer** to fetch data and create a data monitoring report. Set data error alert and auto-trigger the **PowerAutomate** flow to notify PMs and create MS List items. Issues finding speed from one week to one day.
- Create **PowerAutomate** desktop flow help PMs auto batch update TMS platform jobs' information by filling Excel template.
- Learned **APEX** cloud platform and **VxRail**.

Software Engineer Intern React-Native, AWS, JavaScript, Python, Flask, Git **Jan 2023 – Aug 2023**
BU Spark & UmpScores Boston, MA

Website: [UmpScores](#) *Provided accurate game performance measurements of baseball games.*

- Front-end: **React-Native (JavaScript)**. Optimize thousands of lines hard-code, fix data ranking screen, and adds new ranking and filter functions.
- Back-end: **Flask** (Python) deployed in **EC2** with **CI/CD**, data stored in **AWS-Dynamo&S3**. Optimize APIs data processing and create new APIs.

Software Engineer Full-time Java, JS, Docker, ElasticSearch, Neo4J, SpringBoot, Nginx **Jul 2021 – Aug 2022**
Atos Information Technology Co. Ltd [Company Website](#)

*Developed an interactive visual **Knowledge Graph** based on document metadata and content in the Enterprise Content Management platform, deploy as **micro-services**.*

- Back-end: **SpringBoot (Nginx)** starts the **Neo4j** and **MySQL** databases, starts the **Java RestfulAPI** and data synchronization scripts, use **Docker** to deploy. Using **Junit** to do unit test.
- Front-end: **Vue.JS** implement multi-level click expansion of nodes in the graph and preview page jumping by click on node.
- Optimized the **ElasticSearch** micro-service, delivering search and recommendation function and implementing distributed deployment. Used **Redis** to accelerate high concurrency search speed under 2s.

Research Assistant Python, PyTorch, CV **Nov 2020 – Jul 2021**
Chinese Academy of Sciences *Published Paper:* [China Digital Medicine](#)

MRI Brain Image Segmentation Assist Alzheimer's Diagnosis

- Added **Self-Attention** and Generalized-Dice Loss to **PyTorch**-based **3D-Unet** model to segment the Hippocampus region and automatically quantify and visualize Hippocampal atrophy. The dice coefficient of the segmentation result exceeds 0.9.

NLP AI Intern Python, TensorFlow, PyTorch, NLP **Jul 2020 – Nov 2020**
Asia-Info Data Co. Ltd [Company Website](#)

- Built **Python Web-Crawler** to get medicine instructions as a training corpus, build the **Tensorflow(Keras)**-based CNN and RNN models to train classification model mean-AP reached 96%.
- **ChatBot** using GRU+Seq2Seq implements PubMed QA data to realize medical advice chatbot. [Project Paper](#)
- Using Neo4j as graph DB, and a **BERT**-based NER model to extract triplet from the dataset (same as chatbot training data) creates KG to evaluate the chatbot's performance.