

Yuetian (Keith) Wang

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EDUCATION

Brown University, Department of Computer Science, Providence, RI
Master of Science, Computer Science

Aug 2024 - May 2026

New York University Shanghai, Shanghai, China

Aug 2020 - May 2024

Bachelor of Science, Computer Science, Major GPA: 3.9

Bachelor of Science, Data Science, Major GPA: 3.9

Cumulative GPA: 3.7

Honor: Dean's List for Academic Year 2022 & 2023

TECHNICAL SKILLS

Coding Languages:

Python, C++, C, CSS, HTML, JavaScript, SQL, R, Next.js, Haskell

Other Tools:

PyTorch, Stablebaseline3, ChatGPT API, Virtual Machine, Flask, LaTeX

PROJECTS

US Opioid Overdose Deaths Visualization (JavaScript, Next.js, CSS)

Spring 2024

- Showcased an interactive dashboard visualizing opioid overdose impacts and distribution across the US from 1999 to 2014, incorporating socio-economic indicators like unemployment rates.
- A heat map that allows users to explore overdose trends by state, enriched with dynamic bar and time-series charts for deeper insights.

Graph Neural Networks for Multi-Modal Sequential Recommendation (Python)

Fall 2023

- Built a model that recommends items for users based on their sequential history multi-modal data.
- Leveraged graph neural networks to learn global relationships among distinct items and their modalities.
- The model presented a better and more stable capability than the baseline model with a 0.2% improvement measured by Recall and NDCG metric in Amazon and MovieLens datasets.

Neutral Summarization for Framing Biased Articles (Python)

Spring 2023

- Designed a task that given a document from the left, neutral, or right standpoint, the model generates a neutral summarization.
- Finetuned T5-base and T5-large models on the ALLSIDES dataset and evaluated by the Valence-Arousal-Dominance method.
- The finetuned T5-base model improved by 9% with 45% fewer parameters than the finetuned BERT-large model.

Air Tickets Reservation System (Python, Flask, SQL, HTML, CSS)

Spring 2022

- Designed for three types of users: customers, booking agents, and airline staff.
- Created a full-stack system that includes a frontend with more than 30 web pages supporting 28 functions and a backend database.

EXPERIENCE

Prompt Engineering Intern: *Particle Future*, Shanghai, CN

Apr 2024 - Now

- Developed, coded, and tested the virtual world environment embedded with generative AI agents to imitate residents and pets.
- Edited 34 prompts for every type of agent supported by ChatGPT and Llama.
- Upgraded a close-source application of news collection and summarization supported by ChatGPT to adapt to different language inputs and improved prompts.

Learning Assistant: *New York University Shanghai*, Shanghai, CN

Jan 2022 - May 2022

- Provided on-demand knowledge and coding support during the Intro to Computer Science class.
- Held weekly office hours, and monthly review sessions to help course students solve their difficulties.

RESEARCH

Removal NeRF: *New York University Abu Dhabi*, Online

Feb 2023 - Jun 2023

- Supervised by Professor Fang Yi.
- Collected proposed ideas from scholarly articles related to NeRF.
- Integrated the Segment Anything Model (SAM) into Neural Radiance Fields (NeRF) to render scenes by removing a specific item segmented by SAM.

Point Cloud Registration: *New York University*, Online

Aug 2023 - Jan 2024

- Supervised by Professor Feng Chen
- Utilized symmetric inlier classification, and multi-level Deep Closest Point (DCP) algorithms to get the rotation and transition matrices given source and target point cloud as input.
- Generated a new dataset from NCLT, set a threshold to control the percentage of overlapping point cloud pairs, and sorted them into different category folders.
- Executed a series of architectural modifications to the model, fine-tuning the network to better capture the nuances of spatial data, and now working on the implementation of DGCNN as our base model.