Liz Siyun Wang

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EDUCATION

Cornell Tech (Cornell University), New York, NY — May 2025
Jacobs Technion-Cornell Dual Master of Science Degrees, Concentrations in Connective Media and Data Science
Relevant Coursework: Algorithms and Data Structures for Applications, Machine Learning Engineering, HCI and Design

The University of Southern California, Los Angeles, CA — May 2023
Bachelor of Arts in Applied Mathematics (AMCM) and Data Science
Relevant Coursework: Applied Artificial Intelligence, Full-Stack Web Development, Mathematical Statistics
Honors: Dean's List, Academic Achievement Awards

TECHNICAL SKILLS

Coding Languages: Python (Scikit-Learn, TensorFlow, Pandas, NumPy, Matplotlib, NLTK), Java, JavaScript, HTML, CSS, SQL
Other Tools: AWS, Hadoop, MongoDB, Spark, MATLAB, Excel, Figma, Flask, Microsoft Office

PROFESSIONAL EXPERIENCE

AI Camp Inc., NLP Track Data Science Intern, Palo Alto, CA — May 2022 - Aug 2022
- Developed a healthcare consultant chatbot using Python by applying the **DialoGPT** model. Deployed the solution into a **Discord** bot
- Led 18 students to develop 3 **full-stack NLP applications** using Python. Instructed and oversaw tasks including data preparation, model training, front-end design with HTML/CSS/JavaScript, back-end development, and model deployment with **Flask**
- Mentored 3 teams and managed product development for the teams; ranked **top 5** out of 50 mentors across the camp

Lenovo Group Ltd., Data Science Intern, Beijing, China — Aug 2020 - Aug 2021
- Curated a dataset of **75k** website data samples for the Automated Essay Scoring project by self-learning **beautifulsoup, regex**, and **multithreading** techniques
- Presented research at **SIGIR 2022** on a dialogue model adept at finding common ground with conversation partners

ACADEMIC PROJECTS

MiniTorch, Cornell Tech (Python) — Fall 2023
A simple, easy-to-read, test, and incremental Python reimplementation of the Torch API
- Implemented efficient **tensor** objects through indexing, storage, transposition, and broadcasting to optimize the auto-differentiation system originally built around scalars
- Implemented efficient map, zip, reduce, and matrix multiplication functions by leveraging parallelization. Extended these optimizations to CUDA operations, resulting in a 10x speedup of the time/epoch reported by the trainer on both CPU and GPT setup

Text Editor Application, Coursera (Java) — Summer 2023
A software application with spelling check, autocomplete, Markov text generation, word path, and readability scoring features
- Sped up computation of the Flesch readability score by conducting a one-pass analysis of the document to count syllables, words, and sentences efficiently
- Implemented a Trie **data structure** that includes inserting words, checking word validity, and predicting completions for a given prefix
- Realized **spelling correction** by creating a NearbyWord class for generating single-operation word mutations
- Developed a **Markov Chain**-based text generator to create specified amounts of text from user-provided input

Fighting Scientific Denialism, USC (Python) — Spring 2022
A research project aimed at combating the dissemination of climate change misinformation on social media to promote public advocacy
- Constructed an **LDA** model using Python that filtered out 91.8% of irrelevant tweets based on their relevancy to each topic
- Trained a **random forest classifier** to detect "laymansplaining" and "harassment" tweets
- Delivered the project to 10 research professors on behalf of the team. Organized feedback into a report

Parkable, USC (Figma) — Spring 2022
An interactive prototype of a parking space reservation application
- Ideated a product to ensure an efficient, pleasant parking experience for users. Featured nearby parking discovery, detailed lot info (eg. availability, pricing, hours), visualizing lot layouts, space reservation, e-ticketing, and user reviews
- Managed the entire **product cycle**, conducting user interviews and contextual inquiries, storyboarding, wireframing, paper/digital prototyping, and overseeing design choices (typography, color). Culminated in crafting an interactive **Figma** prototype

PERSONAL INFORMATION

Hobbies: UI/UX Design, Oil Painting, Snowboarding, Tennis, Piano — **Immigration Status:** US Permanent Resident