Linda H. Xia

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Education

Cornell University, College of Engineering, Ithaca, NY
Master of Engineering in Computer Science   **Expected Dec 2023**
BS in Computer Science | GPA: 3.626   **Sep 2019 – Dec 2022**
Awards: Dean's List Fall 2019, Dean's List Fall 2020, Dean's List Spring 2022

Relevant Courses: Database Systems, Data Structure & Functional Programming, Analysis of Algorithms, Theory of Computation, Operating Systems, Object-Oriented Programming & Data Structures, Machine Learning, Natural Language Processing, Data-driven web applications

Internships/Experiences

AMF Media, New York, New York, *Data Science Intern*   **July 2022 - Present**
- Collected, ingested, and wrangled data from Instagram and Facebook Graph API Endpoints into Firebase NoSQL Database with Python scripts
- Designed and built visual client metrics from data endpoints in Firebase with Google Data Studio and deployed in AMF's pitches
- Performed quantitative and analytic research on proper data modeling

KUKA Industries Automation, Shanghai, *Front-End Developer Intern*   **July - Aug 2021**
- Built a progress bar for the update patch for a client-end Digital Studio using Angular UI components
- Maintained the login webpage and API for the Digital Studio in collaboration with the backend team
- Contributed to the design decisions of the Digital Studio's toolbox layout

Cornell University, *Undergrad TA for CS4740 Natural Language Processing* **Aug 2022 - Present**
- Drafted and created Project 3 for Cornell's Fall 2022 NLP class: Attention Version of NMT system for Semantic Role Labeling. The system was encoder-decoder-based and utilized beam search. The system assumed the source was in template designed for role-filler entity extraction, performed machine translation, and used beam search to produce hypothesis for the most likely extracted entities for each semantic role in the target template.
- Tested and created baselines on Kaggle leaderboard for Project 1 for Cornell's Fall 2022 NLP class
- Held PyTorch and Gradient Descent tutorials

Projects

Top 3 Machine Translation model in Cornell's Fall 2021 NLP class, Ithaca, NY **Nov - Dec 2021**
- Developed an NMT system to convert modern English to Shakespearean English which used a bidirectional RNN encoder (LSTM) and a Unidirectional RNN decoder (LSTM cell)
- Achieved top 3(out of 60) on Class Leaderboard and a BLEU score of 41
- Realized the goal of preserving Shakespearean linguistic patterns and Shakespearean word choices

NYT News Search iOS App Development, Ithaca, NY   **Mar - Apr 2020**
- Developed a user-friendly interface news search iOS app with API from NYT's official Developer Portal
- Allowed users to preview article snippets in the search query and examine the full article tapped on
- Remembered user preferences such as font sizes and app theme color

GUI-based Game "Pushing Cascading Block" in OCaml, Ithaca, NY   **Dec 2020**
- Developed a GUI-based chill-pixel multiplayer game in which users selected game modes and competed in a randomly generated map to control different players simultaneously to push blocks in a cascading way
- Implemented the core algorithm that recursively moves colliding blocks and stops moving blocks when it detects collisions
- Worked in a team of 4 and effectively planned and reached every soft and hard deadline

Skills   **Programming Languages:** Python (Advanced), Java (Advanced), TypeScript (Advanced), SQL, OCaml, AMPL, Swift, R
Programs: SolidWorks, Adobe Creative Suite, Photoshop, Dreamweaver
Foreign Languages: Mandarin (Fluent)

References

- Dexter Kozen, Joseph Newton Pew, Jr. Professor in Cornell University, 436 Gates Hall, Ithaca, NY, (607) 255-9209, kozen@cs.cornell.edu
- Claire Cardie, Professor, Department of Computer Science and Department of Information Science, 417 Gates Hall, Ithaca, NY, 607-255-9206, ctc9@cornell.edu
- Angela M, Founder of AMF, angela@amfentertains.com