HAOMIAO HAN

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EDUCATION

Cornell Tech at Cornell University, New York, NY   May 2021
Master of Science in Information Systems and Applied Information Sciences, *concentration in Connective Media*

Relevant Coursework: Algorithms and Data Structures for Applications, Applied Machine Learning, HCI and Design

College of Arts and Science, New York University, New York, NY   May 2019
Bachelor of Arts in Computer Science, Middle Eastern Studies | GPA: 3.82/4.0

Relevant Coursework: Natural Language Processing, Introduction to Data Science, Agile Software Development and DevOps, Applied Internet Technology, Database Design and Web Implementation
Honors/Awards: Magna cum laude; Dean's List for the Academic Year (every year from 2015 to 2019); University Honors Scholar

TECHNICAL SKILLS

Software Development:	Python (sklearn, pandas, spaCy, NLTK, numpy), Java, C
Web Development:	JavaScript (Node.js/Express, React.js), HTML, CSS
Data and Database:	MongoDB, SQLite, MySQL, Tableau
Operating Systems:	Windows, MacOS, UNIX, Linux

ACADEMIC PROJECTS

PerCent (Cornell Tech Product Studio Challenge)   Fall 2019 (Ongoing)
A service that provide better financial inclusion to the underbanked and unbanked population in the U.S.
- Conducted extensive research on the financial industry and on the target user base
- Generated 20+ ideas for the challenge, then conducted value creation analysis and developed experimentation plans for top 2 ideas
- Designed and developed a high-fidelity prototype for PerCent, a mobile app that allows users to get changes digitally deposited into their online accounts instead of receiving physical coins

TeachMe (JavaScript, HTML, CSS, MongoDB)   Spring 2019
A web app that connects creatively skilled individuals with those who wish to learn these skills.
- Wrote user stories and use cases and created wireframes for the product
- Led the development process and coordinated with team members by setting up the initial development environment, creating product backlogs, planning for each sprint, facilitating daily scrums and leading sprint reviews and team retrospectives
- Created and implemented user friendly front-end views using React.js and Bootstrap
- Designed MongoDB database schemas and implemented back-end APIs using Node.js/Express and Mongoose

Text Summarizer (Python)   Spring 2019
A program that automatically generates summaries for news articles.
- Conducted research on text summarization techniques and experimented with different approaches to text summarization
- Created the text summarizer by first vectorizing words using word2vec (implemented with spaCy.py) and then performing k-means clustering (implemented with scikit-learn) to select the most representative paragraphs of the article
- Achieved a maximum accuracy rate of 0.6 (as measured by ROUGE-L F-Score), compared to a baseline of approximately 0.4-0.5

RateMyCards (JavaScript, HTML, CSS, MongoDB)   Fall 2018
A web app that recommends users the best credit cards according to their monthly spending habits and credit scores.
- Conducted research on the credit card ecosystem, wrote user stories and created wireframes
- Built a full-stack web app with Node.js/Express, MongoDB and Bootstrap; integrated page templating with Handlebars.js
- Implemented user registration and authentication with Passport.js

EXPERIENCE

NaTakallam, **Intern Executive Assistant to the CEO**, New York, NY   May 2017 - September 2017
- Assisted the founder/CEO in day-to-day operations of the startup social enterprise that connects Syrian and Iraqi refugees with students who wish to learn Arabic
- Maintained the company website and database and made several improvements on website design that resulted in better user experiences and higher customer satisfaction
- Assisted in designing and creating a new product that provides intensive Arabic curriculum for beginners

OTHER SKILLS/EXPERIENCES
- Bilingual in Chinese (Mandarin) and English; fluent with Arabic (Modern Standard); familiar with Cantonese
- Semester aboard at NYU Abu Dhabi in Fall 2016