

HAOMIAO HAN

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EDUCATION

Cornell Tech at Cornell University , New York, NY <i>Master of Science in Information Systems and Applied Information Sciences</i> , concentration in <i>Connective Media</i> Relevant Coursework: Algorithms and Data Structures for Applications, Applied Machine Learning, HCI and Design	May 2021
College of Arts and Science , New York University, New York, NY <i>Bachelor of Arts (Magna cum laude) in Computer Science, Middle Eastern Studies</i> 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: Dean's List for the Academic Year (every year from 2015 to 2019); University Honors Scholar	May 2019
NYU Abu Dhabi , Abu Dhabi, United Arab Emirates <i>Semester Study Abroad Program</i>	Fall 2017

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 (Company Challenge provided by Mastercard) A service that provides better financial inclusion to people without bank accounts in the U.S. <ul style="list-style-type: none">Conducted extensive research on the financial industry and on the target user baseGenerated 20+ ideas for the challenge, then conducted value creation analysis and developed experimentation plans for top 2 ideasDesigned and developed a high-fidelity prototype for PerCent with Sketch, a mobile app that allows users to get changes digitally deposited into their online accounts instead of receiving physical coinsImplemented key features of the product with a full-stack web application, using Node.js/Express and MongoDB	Fall 2019
TeachMe (JavaScript, HTML, CSS, MongoDB) A web app that connects creatively skilled individuals with those who wish to learn these skills. <ul style="list-style-type: none">Wrote user stories and use cases and created wireframes for the productLed 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 retrospectivesCreated and implemented user friendly front-end views using React.js and BootstrapDesigned MongoDB database schemas and implemented back-end APIs using Node.js/Express and Mongoose	Spring 2019
Text Summarizer (Python) A program that automatically generates summaries for news articles. <ul style="list-style-type: none">Conducted research on text summarization techniques and experimented with different approaches to text summarizationCreated 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 articleAchieved a maximum accuracy rate of 0.6 (as measured by ROUGE-L F-Score), compared to a baseline of approximately 0.4-0.5	Spring 2019
RateMyCards (JavaScript, HTML, CSS, MongoDB) A web app that recommends users the best credit cards according to their monthly spending habits and credit scores. <ul style="list-style-type: none">Conducted research on the credit card ecosystem, wrote user stories and created wireframesBuilt a full-stack web app with Node.js/Express, MongoDB and Bootstrap; integrated page templating with Handlebars.jsImplemented user registration and authentication with Passport.js	Fall 2018

EXPERIENCE

NaTakallam , Intern Executive Assistant to the CEO, New York, NY <ul style="list-style-type: none">Maintained the company website and database and made improvements on user registration process and website layout that resulted in better user experiences and higher customer satisfactionAssisted in designing and creating a new product that provides intensive Arabic curriculum for beginners	May - September 2017
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OTHER SKILLS

- Bilingual in Chinese (Mandarin) and English; fluent with Arabic (Modern Standard); familiar with Cantonese