

# Sheng Ma

43-22 Queens St. Apt 3906, Long Island City, NY 11101  
573-554-6387 | [shengma2019@u.northwestern.edu](mailto:shengma2019@u.northwestern.edu)

## WORK EXPERIENCE

### United Nations

New York, NY

*Software Developer Engineer at Emerging Technologies Team*

May – Present 2019

- Developed Alba (Chatbot), which was to be used by 39,700 staffs at UN in 193 member nations to search for information, with **C#** and **Microsoft Bot Framework** for five channels (Web Chat, Google Home, Facebook, Skype, Microsoft Teams) in both text interface and voice interface, and ensured that Alba is functional in six un official languages
- Created a **bash** program, so that, instead of an hour, software engineer can use it to auto generate template for different skills in 10 seconds
- Built Unite Cognition Tool using **React**, **D3**, and **Ant Design** to create a platform for users to exchange articles for summaries, Q&A and video clips, by which **axios** was used to fetch data from back-end APIs

### IFLYTEK

Anhui, China

*Software Developer Intern at Smart Car Team*

Jun – Sep 2018

- Developed car center console interface using **Vue** and **element-ui** and addressed the needs of UI and UX team
- Applied **axios** to extract data such as insurance info, car health condition, car manual, music list etc from backend APIs to integrate to the dynamic car console interface
- Optimized user experience by developing an autocomplete search bar which prompts a list of suggested items (Image and Name)

## SELECTED PROJECTS

### Events Search and Recommendation: Java Web Service Development

- Developed an interactive web page with **React JS** to search user's nearby events, and recommend events based on user's interest with the support of **content-based** recommendation algorithm
- Utilized **Apache Tomcat** as java servlets container to hold java servlets for **RESTful** APIs to handle HTTP requests and responses, and fetched events data (price, location, category, etc.) from Ticketmaster API and stored it in **MySQL** database

## EDUCATION

### Northwestern University

Evanston, IL

Master of Science - Computer Engineering, Dec 2018, GPA: 3.32/4.0

### University of Missouri – Columbia

Columbia, MO

Bachelor of Science – Electrical Engineering, May, GPA: 3.68/4.0

### East China University of Science and Technology

Shanghai, China

Bachelor of Science: Automation, Jul 2015, GPA: 3.3/4.0

## TECHNICAL SKILLS

Java, SQL, Go, React, Vue, HTML, CSS, AWS EC2, Google Cloud, Big Query, Google Dataflow, MySQL, ElasticSearch, BigTable, Docker, Shell, Git/Github, Apache Tomcat, Design Pattern

## INTERESTS

Landscape photography enthusiast, Avid singer – 3-year tenor in choir with 2 international first prize.