

# Sheng Ma

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## WORK EXPERIENCE

### United Nations

New York, NY

*Software Developer Engineer at Emerging Technologies Team*

May – Present 2019

- Developed Alba (Chat Robot), 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 official languages.
- Created a **bash** program to auto generate different skills, greatly improved software engineer working efficiency, shorten the time for creating a new skill from roughly 40 mins to around 10 seconds.
- Built Unite Cognition Tool using **React**, **D3**, and **Ant Design** to create a platform for users to view summarized articles, video clips, and Q&A extracted from an uploaded article, **axios** is 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** to address the needs of UI and UX team.
- Applied **axios** extracted data such as insurance info, car health condition, car manual, music list etc from backend APIs to build a dynamic car console interface.
- Optimized user experience by developing an autocomplete search bar which provides a list of suggested items(Image and Name)

## SELECTED PROJECTS

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

- Developed an interactive web page for users to search nearby events and purchase tickets based on **React JS**.
- Utilized **Apache Tomcat** as java servlets container to hold java servlets for **RESTful** APIs to handle HTTP requests and responses.
- Fetched the real events data (price, location, category, etc.) from Ticketmaster API and stored it in relational (**MySQL**) database.
- Implemented business recommendation with **content-based** recommendation algorithm.
- Deployed the local server to **AWS(Amazon Web Service) EC2** instance.

## EDUCATION

### Northwestern University

Evanston, IL

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

### University of Missouri

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.