

Sheng Ma

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Seeking a full-time software engineer position.

EDUCATION

• Master of Science: Computer Engineering		Sep 2017 – Dec 2018
• Northwestern University	3.317/4.0	Evanston, IL
• Bachelor of Science: Electrical Engineering		Aug 2015 – May 2017
• University of Missouri - Columbia	3.678/4.0	Columbia, MO
• Bachelor of Science: Automation		Sep 2012 -Jul 2015
• East China University of Science and Technology(ECUST)	3.3/4.0	Shanghai , China

WORK EXPERIENCE

Software Developer Intern	Jun– Sep 2018
IFLYTEK	Hefei,Anhui,China
<ul style="list-style-type: none">• Developed Car Interfaces with Vue.js, H5, CSS, element-ui to meet the new requirements of UI and UE.• Applied axios to communicate with backend APIs to obtain data.• Used vue-router to show the correct view of specific URLs.• Applied vue modules in programming to make code cleaner and easier to read.• Used vuex to establish channels between parent and child components, so as to make communications on data between each component easier and more efficient.	

PROJECTS

NearBy: Geo - Index Based Social Network	Sep. – Dec. 2018
<ul style="list-style-type: none">• Designed a geo-based social network web application (create/view posts, search, profile etc.) with React JS.• Used React Router v4 to implement basic token based registration/login/logout flow and implemented server-side user authentication with JWT.• Implemented features such as "Create Post", "Nearby Posts As Gallery" and "Nearby Posts In Map" (Ant Design, GeoLocation API and Google Map API.)• Built a web server (based on Go) to handle posting requests and deployed to Google Cloud(GAE flex).• Utilized ElasticSearch (GCE) to design geo-location based search functions for user to get all nearby posts within a certain distance (e.g. 200 km).• Used Google Dataflow to dump posts data (stored in BigTable) to BigQuery for offline analysis.• Implemented a spam-detection function of certain keywords at post level by BigQuery.	
React JS based NBA Player Strength Visualization	Mar. – May. 2018
<ul style="list-style-type: none">• Created a dashboard using React, D3 and Ant Design backed by the player data fetched from an API from stats.nba.com to visualize individual player's shot data, including a shot chart and user profile view.• Created 4 extra filters and 2 shot themes(hexbin and scatter) to provide more customized visualization on the shotchart.• Optimized user experience by developing a autocomplete player search bar providing a list of players (image and name) in the suggestion list.	
Events Search and Ticket Recommendation: Java Web Service Development	Sep. – Dec. 2017
<ul style="list-style-type: none">• Developed an interactive web page for users to search nearby events and purchase tickets based on HTML/CSS/JavaScript/Ajax.• 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.• Transferred data from MySQL database to NoSQL database (MongoDB) to scale it up.• Deployed the local server to AWS(Amazon Web Service) EC2 instance to handle 93.7 queries per second without obvious loss of efficiency (tested by Apache JMeter).	

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
