

# Guorui Ma

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## EDUCATION

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**University of Southern California**, Los Angeles, CA  
*Master of Science in Computer Science Candidate*

*Jan 2019 - Dec 2020(Expected)*

**Beihang University**, Beijing, China  
*Bachelor of Engineering in Software Engineering*

**GPA: 3.55/4.0**  
*Sep 2014 - Jul 2018*

- **Award And Honor:** Outstanding Graduate

## WORK EXPERIENCE

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### Schlumberger

*Software Engineering Intern*

*Beijing, China  
Jul 2018 - Dec 2018*

- Researched and developed voice and conversation interface prototype system (a web service) which can assist operation team to improve productivity.
- Assisted new grad full-time employee (with non-CS background) to clarify code and database structure of internal training website in Schlumberger BGC (C# ASP.NET backend and part ASP.NET + part Angular.js frontend) and do some maintenance work.

### Software Engineering Institute at Beihang University

*Research Assistant*

*Beijing, China  
Dec 2017 - Jun 2018*

- Individually designed and developed literature research assistant tool based on knowledge graph to help researchers find development and tendency of research interests in specific domains.
- Developed crawler system for gathering information of papers.
- Analyzed relationship among papers and researchers using knowledge graph and mathematical modeling
- Implemented web system using Spring MVC platform and Neo4j graph database.

### Microsoft Research Asia

*Software Development Intern*

*Beijing, China  
Aug 2017 - Dec 2017*

- Developed Frontend of University Management System internal website for managing events within Outreach Group in Microsoft Research Asia using Vue.js framework.
- Resolved problems of University Management System (both frontend and backend) based on feedbacks from internal users.

### School of Software, Beihang University

*Undergraduate Teaching Assistant*

*Beijing, China  
Sep 2016 - Jan 2017*

- Undergraduate teaching assistant for Algorithm Analysis and Design(2016 Fall semester, Professor: You Song), a core professional course for second-year undergraduates.
- Set problems on online judge exercises at <https://buaacoding.cn/group/12/index>.
- Authorized problem-solving reports of the exercises.

## PROJECTS

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### Mapplus - Intelligent Transportation Helper Based on Big Data Analysis

*Feb 2017 - Jul 2017*

*Team Leader*

- Led a group of 4 to build up the intelligent transportation helper prototype system based on big data analysis deployed on Android platform.
- Analyzed relationship among traffic accidents, location, weather and bio of drivers.
- Implemented backend Django server and designed MySQL database for the prototype Android software.
- Won 2nd Prize of 27th Feng Ru Cup Scientific Innovation Competition (the largest scientific innovation competition within Beihang University)

### Real-time Composition Matching Camera APP

*Oct 2015 - May 2016*

- Designed and developed frontend of this application based on intelligent image matching technology deployed on Android platform.
- Won 3rd Prize of 26th Feng Ru Cup Scientific Innovation Competition in Beihang University.

## AWARDS

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Honorable Mention of MCM(The Mathematical Contest in Modeling) 2017

*Apr 2017*

## SKILLS

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- Programming Languages: Python, C/C++, Java, HTML/CSS, JavaScript, C#, PHP
- Development Tools: Django, Spring Framework, Vue.js, jQuery, Bootstrap, ASP.NET, Echarts, Neo4j