

# TAO JIANG

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## SUMMARY OF QUALIFICATIONS

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M.S. Student in Computer Science at UCAS with programming skills in diverse languages and experience in industrial and research settings. Pursuing positions in **Front-End Web Development** (Visualization).

## EDUCATION

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**University of Chinese Academy of Sciences (UCAS)** Expected July, 2018, Beijing, China

M.S. Computer Science | GPA **11/133** (Top 10%)

Relevant Courses: Numerical Analysis, Modern Information Retrieval, Advanced Artificial Intelligence, Text Data Mining, Algorithm Design and Analysis, Software Vulnerability analysis and detection.

**Beijing Institute of Technology (BIT)** July 2015, Beijing, China

B.S. Software Engineering | GPA **2/62** (Top 5%)

Relevant Courses: Data Structure and Algorithm, Algorithm Design and Analysis, Software Engineering, Web Development, Linear Algebra, Probability and Statistics.

## TECHNICAL SKILLS

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**Programing Languages:** JavaScript(ES6, Node.js), HTML/CSS, Python, SQL, C, Shell

**OS, Databases, Automatic workflow:** Linux/macOS/MySQL/MongoDB/Git/webpack/Progressive Web App

**Tools and Frameworks:** D3.js (SVG)/Vue.js/jQuery/three.js (canvas, WebGL)/Express

## PROFESSIONAL EXPERIENCE

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**TalkingData** Beijing, China

*Data Mining and Visualization Intern, HQ Innovation Lab*

Oct 2015 - Present

- Designed and developed Department's TalkingMind Platform, responsible for Front-End and Visualization
- Visualization Prototype Development, responsible for cooperated research project on Spatial-temporal data

**Institute of Software, Chinese Academy of Sciences (ISCAS)**

Beijing, China

*Teaching Assistant of Information Visualization Course (2016 UCAS Fall Semester Graduate Course)*

Sep 2016 - Dec 2016

**DeepGlint**

Beijing, China

*Web Development Engineer Intern, MUSE Department*

Jul 2015 – Sep 2015

- Developed and rolled out new features in Developer Platform
- Responsible for System Monitoring Data Visualization Components' development

**Leiden Institute of Advanced Computer Science (LIACS)**

Leiden, Netherlands

*Leiden University Exchange Student*

Mar 2015 – May 2015

- Improved MARKUS performance and rolled out new features in future work
- Undergraduate Thesis Paper

## PROJECT EXPERIENCE

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**Information-Theoretic Visual Analysis of Big Mobile Location Data**

Sep 2016 - Present

- Constructed User profiles with big mobile location data and mapping them to spatial visualization with proposed entropy metrics, speed up scientific computing with Python Multiprocessing
- Improved web render performances with canvas, rather than svg

**Visual Comparison of Customer Stickiness in Retail Store**

Mar 2016 – Aug 2016

- Developed Visual Analytics Interface and APIs with D3.js/Vue/Express/MySQL/MongoDB
- Accepted by CIKM 2016 DAVA Workshop, presented at Indianapolis, US

**Chinese Reality Show “Dad Where Are We Going” Visualization System**

Apr 2014 – Aug 2014

- Developed with D3.js/Echarts/Bootstrap/Python
- Based on the scratched social media data and rating data of reality show, the system deals with the pure data, data visualization and data analysis at the same time

## SCHOLARSHIP and AWARDS

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**National Government Scholarship**, The China Scholarship Council 2014

**National Endeavor Scholarship**, China Ministry of Education 2013

**Excellent Student Award**, Beijing Institute of Technology, for three consecutive years 2012-2014

**National 1<sup>st</sup> Prize**, The 3<sup>rd</sup> “China Software Cup” Software Design Competition, Nanjing, China 2014.8

**National 1<sup>st</sup> Prize**, The China Robot Contest and the Robocup Open, Hefei, China 2013.10