

# JINHAO CUI

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## EDUCATION

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**Washington University in St. Louis, McKelvey School of Engineering** 08/2017-05/2019

*Master of Science in Electrical Engineering    GPA: 3.36/4.0*

- Relevant Coursework: Rapid Prototype Development and Creative Programming; Advanced Algorithms; Cloud Computing with Big Data Applications; Data Mining; Computer Systems Architecture; Systems Security

**Tianjin University (China)** 09/2011-07/2015

*Bachelor of Engineering in Communication Engineering*

## KEY SKILLS/TOOLS & FRAMEWORKS

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Java, C, Linux, Python, JavaScript, TypeScript, HTML5, PHP  
Spring Boot, Angular, jQuery, Node.js, MySQL, Git, Docker, Spark, Hadoop, Django

## WORKING EXPERIENCES

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➤ **China National Software & Service CO., LTD** 07/2015 - 07/2017

*Software Engineer*

- Remote environment monitoring system for high-speed rail communication
  - Developed and maintained the software for embedded remote terminal units
  - Rewrite the embedded web server with RESTful API to improve the performance by over 50%
  - Led the CRCC specification project to pass the new national standard test
- Data center interconnection and management system
  - Assisted in server development (Java/Tomcat)
  - Optimized the communication between middleware and front end processor
  - Built the alarm managing and pushing system
  - Migrated the server to Spring Boot

## SIDE PROJECTS

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➤ **Blogging System** 10/2019 – present

<https://github.com/cjh14813573/springblog>

- Developed a lightweight blog system in RESTful API
- Built the front end with Angular and Thymeleaf, and the back end with Spring Boot & MySQL
- Used Docker to deploy the test site

➤ **Anonymous Chat Room** 02/2018 – 04/2018

<https://github.com/cjh14813573/anonymous-chatroom>

- Developed an anonymous chat room which is a web-based single page application
- Built the front end with jQuery, and the back end with Node.js
- Supported public/private group chat and P2P messages

➤ **Linux Server Performance Monitor** 03/2019 – 05/2019

<https://github.com/cjh14813573/anonymous-chatroom>

- Developed a simple web-based Linux server performance/resource monitor with React.js & Django

## IN-CLASS PROJECTS

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➤ **Review Prediction Based on Community** 08/2018 – 12/2018

*In-class project (Data Mining, Washington University in St. Louis)*

- Detected similarity-based community structures in Amazon review dataset with Spark/Python
- Used Amazon EMR to process the big data with Hadoop Map/Reduce
- Predicted the review scores and reliability with Cross-Validation
- Made charts of the performances and accuracies of several different community detection algorithms for comparison