

# Haifeng Shi

[email](#) | [github](#) | [blog](#)

## EDUCATION

### Southwest Jiaotong University

*B.E. in Computer Science and Technology*

- **GPA:** 87(3.6/4.0), Last 2 Year GPA: 89

Chengdu, China

Sep 2016 – Jul 2020

## EXPERIENCE

### Software Engineer

Jul 2020 – Jul 2021

*CDN scheduling group, Huawei Cloud*

*Chengdu, China*

- Constructed the Auto-Schedule system to load balance network traffic on distributed machines achieving several goals: (1) able to handle an unexpected surge in traffic (2) failure recovery (3) lower bandwidth cost; Built a tool to visualize traffic distribution for quick debugging the system
- Implemented "Http-302" service in place of traditional DNS service, which better identifies users' location and perform precise scheduling; Designed a caching and asynchronous querying strategy to reach high QPS
- Participated as a secretary when collaborating with Prof. Stefen Schmid on topic Resource Popularity Prediction; Translated our product documents, illustrating the scheduling strategy of our CDN
- In charge of new employee onboarding for a half year, including organizing monthly group meetings, receiving their feedback and resolving their questions

### Visiting Student

Sep 2019 – Dec 2019

*CMS, National University of Singapore*

*Singapore*

- Analyzed the marine traffic in Singapore port by weighted least square approach based on the spatio-temporal data (AIS data); The result is the traffic fundamental diagram of Singapore port

## PROJECT

### Multi-objective Evolutionary Community Detection

Jan 2020 – Apr 2020

- Proposed an algorithm using PESA-II framework and employs PageRank, Chaotic Mutation and Harmony Search; Designed a "grid-overflow" mechanism to increase mutation probability
- Reproduced two existing algorithms [Mdbbo](#) and algorithm [Mania](#) in C++
- Utilized Flask to build a [web application](#) which supports the visualization of the community detection result (Advised by Prof. Hongmei Chen)

### Products Classification by name

Jan 2019 – May 2019

- Collaborated with *Inspur Inc.* to accomplish the classification of 4.5 million products
- Built a web front end as well as a query system to demonstrate our classification result
- Established models like LSTM, GRU, Text-CNN to reach the accuracy of 85% on test set and optimized the embedding layer with Word2Vec

## AWARDS

### Excellent New Employee; Year 2020 Performance Appraisal: A

Huawei Cloud

*Top 15%*

### Second-Prize, School Programming Competition

SWJTU

*Rank: 7/90*

### Provincial Second-Prize of Program Design

LanQiao Cup

*Rank: 29/250*

### Mini Marathon Competition (6km)

U-RUN

*Rank: 11/450*

## TECHNICAL SKILLS

**Programming Languages:** Golang, C++, Python, MySQL, Shell, JavaScript

**Tools and Frameworks:** Git, Vim, L<sup>A</sup>T<sub>E</sub>X, Echarts, Flask, Pandas

## CERTIFICATE

**TOEFL:** 105 (reading:29, listening:29, writing: 24, speaking: 23)

**GRE:** 323 (Verbal:156, analytical writing: 3.5)

**Huawei-Professional-Trustworthy-Software-Certificate**(Golang)