

Haifeng Shi

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

EDUCATION

Southwest Jiaotong University

B.E. in Computer Science and Technology

Chengdu, China

Sep 2016 – Jul 2020

- **GPA:** 87(3.6/4.0), Last 2 Year GPA: 89
- **Course Highlight:** Data Structure(97), C++(96), Computer Composition(94), MicroComputer(94)

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
- Managed 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, C++, Python, MySQL, Shell, JavaScript, Verilog

Tools and Frameworks: Git, Vim, L^AT_EX, Echarts, Flask, Pandas, Proteus

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)