

# Jianfeng Hou

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## Education

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### ShanghaiTech University

MSc Computer Science

2019.9 — Now

### Tongji University

BCs Software Engineering

2015.9 — 2019.6

## Personal Summary

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Jianfeng Hou was admitted to the School of Software of Tongji University in 2015. During the undergraduate stage, he studied the basic knowledge of computer science seriously and achieved excellent scores; at the same time, he also participated in a number of practical projects and accumulated rich programming skills and project management experience. Jianfeng Hou has participated in many innovation and entrepreneurship competitions and won gold prizes. Among them, the innovative Chinese input method “iFlide Input Method” developed by him has been reported by dozens of domestic media and praised by several well-known investors. For the time being, Jianfeng Hou is majoring in CS at the School of Information Science and Technology, ShanghaiTech University. His main research interests include: reinforcement learning and its application, edge intelligence, mobile computing, machine learning, deep learning, and distributed systems.

## Publications

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### Graduate

#### Green Edge Intelligence Scheme for Mobile Keyboard Emoji Prediction

J. Hou, Y. Tang, X. Huang, Z. Shao, Y. Yang, **IEEE ICC 2021**, CCF B

### Undergraduate

#### HydraDoctor: Real-time Liquids Intake Monitoring by Collaborative Sensing

B. Du, C. Lu, X. Kan, K. Wu, M. Luo, J. Hou, K. Li, S. Kanhere, Y. Shen, H. Wen, in Proceedings of the 20th International Conference on Distributed Computing and Networking (**ICDCN 2019**), CCF B

## Honors & Awards

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2018 “Chuangqingchun” National Student Entrepreneur Contest <b>Finalist Live Finals</b>	<b>Silver Prize</b>	National Level
National Student Innovation and Entrepreneur Training Program	Graduation	National Level
Contemporary Undergraduate Mathematical Contest in Modeling	Third Prize	National Level
2018 Mathematical Contest in Modeling (MCM)	Honorable Prize	National Level
2018 “Chuangqingchun” Shanghai Student Entrepreneur Contest	<b>Gold Prize</b>	Province Level

The 4th "Internet+" Student Innovative Entrepreneur Contest of Shanghai	<b>Silver Prize</b>	Province Level
The 3rd "Hui Chuang Qing Chun" Shanghai Student Cultural Innovative Works Presentation Contest	First Prize	Province Level
2018 Wujiaochang Innovation and Entrepreneurship Contest	<b>Gold Prize</b>	Province Level
Tongji Student Innovation Training Program (SITP)	Graduation	Province Level
2017 FIRST Technology Challenge (FTC) Shanghai @ Tongji University Preparation Area Manager	Outstanding Volunteer	Province Level
2017 Adolenscent University Science Camp @ Tongji University	Outstanding Volunteer	Province Level
The 4th China's "Internet+" Student Innovation Entrepreneur @ Tongji University	Gold Prize	University Level
2018 TONGJI UNIVERSITY Entrepreneurship Summer Camp	<b>Graduation</b>	University Level
2018 "Chuangqingchun" Student Entrepreneur Contest @ Tongji University	Grand Prize	University Level
2015 — 2016 Tongji University Outstanding Undergraduate Student Scholarship	Third Prize	University Level
2016 — 2017 Tongji University Outstanding Undergraduate Student Scholarship	Third Prize	University Level
2017 Tongji SSE @ SAP Shanghai Design Thinking Camp	Outstanding Organizer	School Level
Tongji Microsoft Club 2017 Beauty of Programming Xiaomei Meeting	Outstanding Organizer	School Level
Tongji Google Camp 2017 — 2018	Chairman	School Level
Tongji Google Camp 2017 Android Sunday Seminar	Outstanding Speaker	School Level
Tongji Google Camp 2017 Android Summer Seminar	Outstanding Speaker	School Level

## Experience

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### iFlide Input Method (Startup)

Co-founder, Chief Technology Officer

2017.11 — 2018.12

- Introduction: iFlide input method is an innovative Chinese input method via sliding, aiming to be the "Sogou" in the VR field. The mobile version of the iFlide input method has over 8,000 users, has won prizes in many innovation and entrepreneurship competitions, and has been reported by several domestic media.
  - Major Work: the design of the sliding mechanism, the design and implementation of the Chinese Pinyin Input Method, the setup of a Chinese word database, and a cloud platform for APP crash collection.
  - Technologies: sliding pattern recognition, Pinyin automatic error correction, ultra-fast Pinyin query, Chinese word segmentation, next-word prediction, etc.
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### United Automotive Electronic Systems (Shanghai)

Big Data Laboratory Intern

2017.8 — 2017.9

- Main Work: participated in building up the "Never Breakdown" intelligent internet of vehicles system, led the development of the Android client on cars.
- Major Achievements: processing and visualization of streaming data in real time on resource-constrained Android devices.
- Technologies: MQTT (messaging protocol), Spark, Hive database, MPAndroidChart.

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# Software Projects

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## Tongji Course Evaluation Platform

Project Leader

2017.4 — 2017.8

- Introduction: The Tongji Course Assessment Platform is an online evaluation and discussion website for teachers and students of the whole school. Users sign in through the unified identity authentication of Tongji University, and can perform course search, browsing, evaluation, communication and other operations.
  - Technologies: Oracle (RDBMS), ASP.NET, Bootstrap, JavaScript.
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## Tongji GCer

Project Leader

2017.10 — 2018.1

- Introduction: The discussion platform for Tongji Google Camp.
  - Selected Achievements: Customized recommendation for users via collaborative filtering.
  - Technologies: MariaDB (RDBMS), Redis (in-memory database), gRPC, Android, Spring Boot.
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## Aidu Exploration APP

Android Development

2017.9 — 2017.11

- Introduction: Aidu Exploration APP is the operating software of Aidu water-finding instrument, mineral prospecting instrument, geophysical prospecting instrument and other instruments. It integrates intelligent software such as data acquisition, data processing, mapping analysis and communication with customer service consultants to process complex and professional data. Simple and intelligent, allowing exploration users to quickly master the software for field data collection, processing and analysis. The number of users has reached 10,000.
  - Major Work: implementation of the Kriging algorithm, code optimization of the whole project, fixes of several blocking problem.
  - Technologies: Qt, Android, MVVM architecture.
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## REINFORCEpy

REINFORCEpy is an open source reinforcement learning library that implements multiple commonly used reinforcement learning algorithms and is equipped with elegant web visualization.

- GitHub address: <https://github.com/winderek/reinforce-py>
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## Miscellaneous

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- English: proficient (TOEFL 93, CET-6 517)
- GitHub: <https://github.com/winderek>
- Personal Emails: [derekwangyi@163.com](mailto:derekwangyi@163.com), [frankderekdick@gmail.com](mailto:frankderekdick@gmail.com)