# He Zheng, Software Engineer

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https://github.com/ZhengHe-MD | https://zhenghe-md.github.io/blog/

## SUMMARY

He has earned a bachelor's degree in Economics and a master's degree in Technology of Computer Application in China. Although he works as a back-end engineer most of the time, he also has some base-level understanding and experience on front-end development, machine learning algorithms and big-data analytics. Eager to learn anything interesting, he is capable of conducting research in unfamiliar fields, producing technical reports or shares, and designing solutions to real problems. He leads a software engineering team under the middle platform department for 2 years at PalFish. The team focuses on improving server-side observability and making the development of OA systems easy.

## EXPERIENCE

**PalFish, Inc, Software Engineer**　　　　　　　　　　　　　　　　2019-04-15 — Present
https://www.ipalfishclass.com/

- Distributed tracing: integrate Jaeger, the distributed tracing system, with the pre-existing infrastructure to solve the observability problem. Main works include instrumenting on inter-process calls, writing scripts and documentations to help developers migrate legacy microservices seamlessly, and supporting tail-based sampling with OpenTelemetry-Collector.
- Source code search engine: introduce Zoekt, a search engine for code, to answer the question, "Who is calling my APIs".
- OA building blocks: build and maintain services that provide shared utilities among OA systems developed by different teams, in order to speed up the development process. Typical ones are organization architecture, authorization, audit logs and business process management.

**iQIYI, Inc, Software Engineer**　　　　　　　　　　　　　　2017-07-12 — 2019-04-01
https://www.iqiyi.com/common/aboutus.html

- Data labeling: design and develop the multimedia data labeling systems, which becomes the main data source for several AI teams to conduct supervised machine learning.

**Madadata, Inc, Front-end Engineer**　　　　　　　　　　　　2016-03-15 — 2017-04-17
https://github.com/Madadata

- Front-end development: intern as an front-end engineer, participate in serveral front-end projects, get hands-on experiences on React and NodeJS.

## PUBLICATIONS

**Simplify the Basic Artificial Bee Colony Algorithm, IEEE International Conference on Systems Man and Cybernetics Conference Proceedings**　　　　　2015-10-12
https://ieeexplore.ieee.org/document/7379506

**Testing an evolutionary portfolio algorithm on the CEC2016 real-parameter single objective optimization, 2016 IEEE Congress on Evolutionary Computation (CEC)**　　　　　2016-07-24
https://ieeexplore.ieee.org/document/7748321

## AWARDS

**National Scholarship, Ministry of Education**　　　　　　　　　　　　　2015-12-01

## EDUCATION

**Renmin University of China**　　　　　　　　　　　　　　2014-09-01 — 2017-07-01
Master - Stochastic Optimization and Image Segmentation, GPA: 3.7/4.0

**University of International Business and Economics**　　　　　2010-09-01 — 2014-07-01
Bachelor - Economics, GPA: 3.7/4.0

## SKILLS

**Programming Language:** Go, Javascript, Python, Java

**Web Development:** HTTP/gRPC/Thrift, HTML/CSS/React

**Data systems:** MySQL, TiDB, Prometheus, boltdb, Redis, ElasticSearch, MongoDB, Kafka

LANGUAGES    English *(conversational)* , Mandarin *(Native)*

INTERESTS    Sports *[ badminton, soccer ]*