

# Han You

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[hanyou.dev](http://hanyou.dev) (tech blog)

[github.com/sqd](https://github.com/sqd)

[linkedin.com/in/han-you](https://linkedin.com/in/han-you)

## Education

Computer Science B.S. at **University of Michigan**, Ann Arbor, MI  
~ **Colorado College**, Colorado Springs, CO

Expected Graduation: April 2021  
2017 - 2019

## Work Experience

**Data Platform Development Intern, Akuna Capital**, Remote 2020/06-2020/08

- Researched and built a custom job scheduling and execution framework that runs on Kubernetes. The framework supports multiple types of executables including Docker image, jar package, Jupyter notebook, etc.
- Customized web frontends and cmdline utilities of the framework for quant traders.

**Video Software Engineering Intern, JW Player**, New York, NY 2018/06-2018/08

- Researched/implemented SSIM for JW Platform's transcoding quality monitor. Integrated this service with RabbitMQ.
- Worked on JW Platform's thumbnail and transcoding services in an Agile team. TDD, PR review, bug report and fix, etc.
- Automated services' configuration, deployment, and scaling with Jenkins, Docker, and Kubernetes.

**Research Intern, SINOEST Software**, Guangzhou, Guangdong, China 2016/08-2016/09

- Optimized a Chinese text tokenizer; optimized the performance of a Java application based on Apache Lucene.
- Developed the prototype of a recommendation system working on very sparse graph.

## Main Personal Projects

not-named-yet (WIP)

- A rule-base user-mode Linux hypervisor that intercepts and bridges system IO to a remote host.

**BouncyCastle**

- A trustless chaining proxy network where each user proxies for other users. It supports auto peer discovery, recovery from faulty links, and a routing heuristic that balances between performance and anonymity.

**Fork of GHC with JavaScript Backend**

- A fork of the Glasgow Haskell Compiler that adds in a JavaScript backend, using ES6 functional facilities. It comes with out-of-the-box FFI, and supports "linking" via webpack.

**haskell-C89-interpreter**

- A light interpreter of C language (C89 standard) written from scratch. The interpreter contains a tokenizer, a parser, a translator, a simple optimizer and a runtime.

**Distributed Algorithm Playground** ([dist.hanyou.dev](http://dist.hanyou.dev))

- A webapp to visualize and pock around your distributed algorithms.

**araneaSS**

- A distributed Shadowsocks proxy server implementation. The server uses asynchronous networking, and supports delayed disconnection to defend against header-spoof detection.

**zhexingsun**

- An HTTP proxy that camouflages as an innocent API server when it detects a scanner. Also immune from traffic analysis.

## Awards

- First Prize in National Olympiad in Informatics in Province (4 times) 2012-2015
- Finalist of National Olympiad in Informatics 2014
- First Prize in National Teenager Innovation Competition 2014

## What Co-workers Say

**Mentor:** Amit Patil, Junior Software Engineer at Akuna Capital:

*"Han fit right into the team and quickly started to work along the other interns... His coding skill is strong."*

**Supervisor:** George Ponick, Software Engineering Lead at JW Player:

*"Han worked through the normal code review and release process and his code was well written, well structured, and indistinguishable from code written by other members of the team... Han has great confidence in his abilities while maintaining his easy-to-work-with demeanor and his lack of ego."*

**Co-worker:** Sergii Tkachenko, Senior Software Engineer at JW Player:

*"He has strong technical skills, and, more importantly, he a good team player and highly self-aware. I'd love to work with him again and would hire him immediately after the graduation."*