Han You

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Education

Computer Science B.S. at University of Michigan, Ann Arbor, MI   Expected Graduation: April 2021
                ~   **Colorado College,** Colorado Springs, CO   2017 - 2019

Work Experience

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 around JW Platform's thumbnail and transcoding services in an Agile team. Development, testing, PR review, bug report and fix, etc.
- Automated services' configuration, deployment, and scaling with Jenkins, Docker, and Kubernetes.
- Wrote utility scripts for customer support.

Research Intern, SINOBEST 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

BouncyCastle
- A trustless proxy network where each user proxies for other users. By chaining proxies, even in a network where over half of the nodes are malicious, it is not likely for a node to leak its identity or traffic metadata. 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 *(WIP)*
- 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.

Easier CC Banner (EasierBanner.cc)
- Used by over half of Colorado College's freshmen, this website/Chrome extension adds fuzzy search and course schedule table generation features to Colorado College's online course selection system.

Distributed Algorithm Playground (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
- A 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

George Ponick, Software Engineering Lead at JW Player (Supervisor):
> *"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."*

Sergii Tkachenko, Senior Software Engineer at JW Player (Co-worker):
> *"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."*