

Shao Cheng

Curriculum Vitae

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👤 TerrorJack

Specialties

- Statically typed functional programming, as seen in Haskell and ML-family languages (OCaml, F#, etc).
- Proficient with common functional programming design, application and implementation.
- Capable of prototyping and implementing general-purpose programming languages or domain specific languages for real-world needs.

Education

2014–Present **Tsinghua University**, *Department of Computer Science and Technology*.

2012–2014 **Tsinghua University**, *School of Life Sciences*.

Experience

2018–Present **Software Engineer at Tweag I/O.**

I am working on a Haskell to WebAssembly compiler at Tweag I/O. [ref](#)

2017 **Intern at ThoughtWorks.**

As a summer intern at ThoughtWorks Beijing Office, I picked up some Scala and deep learning, and participated in the maintainance of DeepLearning.scala

2017 **Teaching Assistant of Functional Programming Course.**

Teaching assistant of the functional programming course in Tsinghua University's School of Software. Delivered several lectures on practical usages of Haskell and designed the course project.

2016 **Organizer of Functional Programming Forum.**

Organized a forum for functional programming in the campus. 6 lectures on different topics are delivered. See details in [this blog post](#).

2015 **OPLSS Participant.**

Participated in the Oregon Programming Language Summer School and enrolled in advanced courses about programming languages. [ref](#)

2014–Present **Haskell Open Source Projects Contributor.**

Contributed to several Haskell open source projects, see my [GitHub profile](#).

Skillset

Haskell	Highly skilled: Type-Driven Development, utilizing an advanced type system to build robust and maintainable software.
Python	Skilled: Shell scripting, data analysis and web backend development.
SQL and ElasticSearch	Skilled: as web backend infrastructure.
Linux	Familiar with Ubuntu and Arch Linux. Capable of writing Bash scripts.
Git	Skilled: using it for all projects I maintain.
Continuous Integration	Skilled: familiar with Travis CI, Circle CI and AppVeyor. Most of my projects use them to run tests on major platforms.
Docker	Skilled: maintains several repositories on Docker Hub for reproducible build environments.

Languages

Chinese	Native	
English	Fluent	<i>Clear and and coherent verbal communication with native speakers. Comprehensive reading and writing of academic or professional contents.</i>

Community Contribution

I am an active participant of the Haskell community. I am a maintainer of several Hackage packages (see my Hackage profile), and provided PLT-related advice on places like `/r/haskell` and `#haskell` (both using the username `terrorjack`). I am also an active promoter of Haskell in the Chinese developer community, keeping a Haskell-related blog on a major Chinese SNS site.