

TESLA ICE ZHANG

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🎓 EDUCATION

ChengDu Foreign Languages School (CDFLS), Chengdu, China

2015.9 – Present

👥 EXPERIENCE

FriceEngine

<https://icela.github.io/>

A multilingual, natively-written, easy-to-use game engine series.

- Based on life cycle / utility APIs, based on each languages' built-in GUI framework, easy to install.
- GitHub issue / milestone are used as task / version managing tools, nice changelogs.
- A JavaFX-based drag-and-drop GUI designer, generates multilingual codes for each language.

Lice

<https://github.com/lice-lang/lice>

A scalable programming language running on JVM.

- Support lambdas and lazy (call by need) / macro (call by name) / strict (call by value).
- About one-twentieth of Java's (Hotspot 8u151) performance in benchmark, and can perfectly interact with JVM languages.
- Provided JetBrains IDE plugin supporting semantics-based highlighting, error checking, completion, jump to definition, etc.
- Provided a command-line REPL with GHCi-style code completion and colored output.

Kt2Dart

<https://github.com/ice1000/Kt2Dart>

A transpiler that converts Kotlin codes into Dart, written in Haskell.

Theorems

<https://github.com/ice1000/Theorems>

Some algebraic theorems proved using Agda. Rendered code is available online.

♥ ACHIEVEMENTS

1 kyu on CodeWars, ranked #31, primarily in Haskell

Aug. 2017

⚙️ SKILLS

- **Programming Languages:** **multilingual, not limited to any specific language**, and especially experienced in Java/Kotlin/Dart/C#/Haskell/Agda
- **Compilers:** familiar with LLVM IR (and LLVMSharp), optimizations, closure conversions, etc.
- **Kotlin:** **2 years of experience**, 4 projects in Awesome Kotlin
- **Agda:** understand type-level programming and formal verifications
- **JetBrains MPS:** **1 years of experience**, understand Language-Oriented Programming
- **Mobile developing:** **2 years of experience**, Android, Fuchsia (Flutter)
- **Editors:** can adapt to any editors, normally use JetBrains IDEs, VSCode, Notepad++ and Emacs

📄 MISCELLANEOUS

- Blog: <http://ice1000.org/>
- Opensource contributions: <http://ice1000.org/opensource-contributions/> provide bug fix / new features to organizations like **Microsoft**, **shields.io**, **Ruby**, etc.
- StackOverflow: <http://stackoverflow.com/users/7083401/ice1000> also active on other StackExchange sites
- Languages: English - fluent (TOEFL 100), Chinese - native speaker
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