

# TESLA ICE ZHANG

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## 🎓 EDUCATION

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Chengdu Foreign Languages School (CFLS), Chengdu, China 2015.9 – 2018.6

## 👨‍💻 WORK EXPERIENCE

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Sourcebrella Inc., Shenzhen, China 2018.2 – 2018.6

*Intern* Compiler Front-End, IDE Plugin Development

- Created IntelliJ/CLion/Eclipse integration of the Pinpoint analyzer, helped to create SonarQube plugin
- Created a multi-threading cross Java/Kotlin source code indexer, index hadoop takes 4 minutes
- Modified clang-3.6 front-end to compile the blockchain project eos which is currently using clang-4.0

## 🐱 PERSONAL PROJECTS

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DevKt <https://github.com/ice1000/dev-kt>

Cross-platform lightweight code editor / Kotlin IDE.

- Built-in Java/Kotlin highlights and completion, other languages can be supported via plugins. Has extra build & run support for Kotlin.
- Flexible architecture, decoupled high-level logic with UI, migration to other UI frameworks is easy.
- JetBrains IDE plugins can be easily transplanted to this IDE.
- Provides fine-grained highlight color and keymap settings, support hot reload.

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

Scalable programming language running on JVM.

- Supports lambda with 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, work with Java's built-in script engine.
- Provides JetBrains IDE plugin supporting semantic-based highlights, completion, go-to-definition, rename, eval-and-replace, quick fixes, etc.
- Provides a CLI REPL with GHCi-style code completion and colored output.

julia-intellij <https://github.com/ice1000/julia-intellij>

Julia plugin for JetBrains IDE, compatible with all JetBrains products.

- Semantic-based highlights, quick fixes, completion, special input mode for Unicode characters.
- Supports existing tools like DocumentFormat.jl, provide config file highlights, completion and linter.
- Provides a visualized package manager that wraps the built-in one.
- Integration with other plugins, like provide Markdown highlights for doc strings.

## ♥ ACHIEVEMENTS

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1 kyu on CodeWars, ranked #31 on the whole site, primarily in Haskell Aug. 2017

## ⚙️ SKILLS

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- **Programming Languages:** **multilingual, not limited to any specific language**, and especially experienced in Java/Kotlin/Dart/C#/Haskell/Agda
- **Compilers:** proficient in various Parser Generators, understand type systems and things like type inference and bytecode optimization
- **Kotlin:** **2 years of experience**, 4 projects collected in Awesome Kotlin
- **Agda:** understand type-level programming, dependent type and formal verification
- **JetBrains MPS:** **1 years of experience**, understand Language-Oriented Programming

- **IDE Toolings: 1 years of experience**, familiar with the IntelliJ Platform infrastructure and overall architecture, also have some experience with Eclipse
- **Mobile developing: 2 years of experience**, Android, Fuchsia (Flutter)
- **Editors**: can adapt to any editors, normally use JetBrains IDEs, Emacs, Notepad++

## **i** MISCELLANEOUS

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- Blog: <http://ice1000.org/>
- Opensource contributions: <http://ice1000.org/opensource-contributions/>  
provide bug fix / new features to organizations like **Microsoft**, **JetBrains**, **Ruby** and projects like **imgui**, **shields.io**
- StackOverflow: <http://stackoverflow.com/users/7083401/ice1000>  
privileged moderator, also active on other StackExchange sites
- Languages: English - fluent (TOEFL 100), Chinese - native speaker
- Get the newest version of this resume: <https://tinyurl.com/y8xdlfug>