

TESLA ICE ZHANG

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🎓 EDUCATION

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

👤 WORK EXPERIENCE

Sourcebrella Inc., Shenzhen, China 2018.2 – Present

- Responsible for IntelliJ / CLion / Eclipse / Eclipse CDT integration of the pinpoint analyzer
- Created a multi-threading cross Java/Kotlin source code indexer, index hadoop takes 4 minutes
- Created SonarQube plugin for the pinpoint analyzer and Google's findbugs analyzer

🐱 PERSONAL PROJECTS

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

Cross-platform lightweight code editor / Kotlin IDE.

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

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

Scalable programming language running on JVM.

- Supports 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, work with Java's built-in script engine.
- Provides JetBrains IDE plugin supporting semantics-based highlightings, error checkings, completions, jump-to-definition, renaming, eval and replace, quick fixes, etc.
- Provides a command-line 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.

- Semantics-based highlighting, error checking, quick fixes, completions, special input mode for unicode symbols.
- Supports existing tools like DocumentFormat.jl, provide config file highlighting, completions and linter.
- Provides a visual package manager that wraps the built-in one.
- Integration with other plugins, like provide Markdown highlighting for doc strings.

♡ ACHIEVEMENTS

1 kyu on CodeWars, ranked #31 on the whole site, 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 concepts and usage
- **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

- 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> moderator with some privileges, also active on other StackExchange sites
- Languages: English - fluent (TOEFL 100), Chinese - native speaker
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