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Swift Type System Engineer

Santa Clara Valley (Cupertino), California, United States
Software and Services

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Summary

Posted: Nov 18, 2022

Weekly Hours: 40

Role Number:200444088

Swift Type System team at Apple is a unique opportunity to evolve the Swift programming language and the developer experience of writing Swift code.

We are a fast-paced and highly-collaborative group working toward improving the safety, expressivity, and approachability of writing code in Swift as well as improving the developer experience and productivity through type checker performance, diagnostics, and other educational tools for understanding Swift code.

You will have experience with some of the skills below. Nobody is expected to have experience with all of these, but we are looking for someone with a strong desire to learn what you don't know.

Key Qualifications

- Demonstrated ability for collaborative, patient, and iterative design and technical writing.
- Curiosity for understanding a programming mental model and how code works "under the hood".
- Experience with software design and programming in a statically-typed language such as (but not limited to) C++ or Swift.
- Familiarity with algorithms and data structures.
- Ability and motivation to investigate and learn what you don't know.
- Receptiveness to constructive feedback and mentorship.

Description

The Swift Type System team is looking for an engineer to collaboratively design and implement new language features, improve type checking performance, and enhance the Swift developer experience through diagnostics and other compiler-driven tools. Drawing from your own experience writing code, internalizing a programming model, and working with developer tools, you will bring diverse perspectives and a desire to help solve the problems you've encountered in your own development work.

This position requires a highly creative and self-motivated individual, capable of communicating with and giving feedback to others in a range of roles across software engineering at Apple, the open source Swift community, and beyond.

You will have the opportunity to affect design decisions not only on the Swift programming language and its developer-facing tools, but also general programming patterns, applications of Swift, and community building/outreach across the Swift ecosystem. Iteration and innovation are key to this role. You should relish change, and be prepared to question commonly established practices, with the desire to create the best possible experience to enrich the lives of programmers, both current and future.

As a Swift Type System engineer, you will:

- Collaborate with teammates through in-person conversations, pull requests, and other online discussions.
- Collaborate with open source contributors through pull requests and the Swift Forums.
- Design and implement new language features, including the diagnostic experience, documenting and iterating on your design decisions through the Swift evolution process.
- We encourage constructive feedback on your changes from Swift programmers, and iteratively improve the experience of writing Swift.
- Drive the testing, integration, and adoption of your changes into the development ecosystem.

Education & Experience

Bachelor's degree or equivalent experience in Computer Science or a related field.

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