

Software Engineer Onboarding

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Accessing Materials

Many of our internal documents are referenced through custom short links (s/alias). It's a good idea to make sure you have our [Chrome Extension](#) installed so that you can access all of them.

Learning

Stage 0

- [Contributing Guidance](#)
- [Scrum: The Art of Doing Twice the Work in Half the Time](#)
- [The Phoenix Project: A Novel about IT, DevOps, and Helping Your Business Win](#)
- [The Goal: A Process of Ongoing Improvement](#)
- TODO format: // *TODO(issue#631): support responsive layouts.*

Stage 1

- [Clean Code](#)
- [Refactoring](#)

Stage 2

- Learn [Dependency Injection](#)
- Learn [SOLID principles](#)
- Learn [Package design principles](#)
- Learn [Clean Architecture](#)
- Learn [Testing](#)

Stage 3

- Learn [The Twelve-Factors App](#)

Stage 4

- Learn core concepts of [Kubernetes](#)
- Research [app framework](#) and learn the tech stack
- Learn [Drone CI pipeline](#)
- Review SQLs
- Learn [GraphQL](#)
- Learn UML ([class modeling](#), [interaction diagram](#), [activity diagram](#), [finite state machine diagram](#))

Stage 5

- Learn [System Design Fundamental Concepts](#)
- Learn [Designing URL Shortening Service](#)

Optional

- Learn [Micro services architectures](#)
- Learn [Distributed Systems](#)

Ramp up

- Pick an issue from [here](#) and ask clarification questions on that issue.
- Propose your design on the issue or write a design proposal for issues involving interaction between multiple components.
 - [Sample design discussion on Github issue](#)
 - [Sample Design Doc](#)

Choosing Projects

At Short, we want you to work on something you are passionate about. There are few ways for you to decide what to work on:

- take predefined issues from [here](#)
- propose new features, bug fixes, user experience enhancements, refactors, or performance optimization for existing projects in [Short Org](#)
- Select new projects [here](#) and build them from ground up

Please private message Harry on our [Slack](#) so that he can get you started!

Additional Readings

[Feature Toggles \(aka Feature Flags\)](#)

[Domain-Oriented Observability](#)

[The Basics of Web Application Security](#)

[The Practical Test Pyramid](#)