

Software Engineering

Does this sound like you?

You like coding and building products. You love testing new systems. You have the interest and ability to learn new coding languages as needed. You've always had a passion for technology and software. Perhaps you could be a **Software Engineer**.

Job Overview

The engine room of the tech ecosystem, software engineers write the code that powers tech companies. There are myriad types of software engineers, and they build using a wide variety of languages and tools. Here's a (very high-level) overview:

- *Backend engineers* work on aspects of web applications that users don't see. Information exists in databases; backend engineers connect that information to webpages. They often work within particular frameworks like Rails, which works with the programming language Ruby. Another is called Django, which works with Python.
- *Frontend engineers* render the screen that you actually see. Frontend engineers typically work using HTML, CSS, and JavaScript. They also tend to know enough of whatever backend language the application uses to be able to pass data back and forth with the underbelly of the application.
- *Full stack engineers* can do everything required of the application, front to back.

Some engineers have computer science degrees. Some went to coding bootcamps. The truth is, the degree you have doesn't matter... the only thing that matters is what you can do. If you don't have a degree in Computer Science, companies will often look for an equivalent level of practical experience in coding or software development and will test your technical aptitude throughout the interview process.

Top Skills & Competencies

- Software Development
- General Programming Skills
- Software Debugging
- Software Documentation
- Software Testing
- Analytical & Problem Solving Skills
- Ability to Learn Quickly
- Agile Development Processes and Principles
- Written and Verbal Communication
- Customer-Oriented