

# Software Development Engineer

Zero-cost SDE Training to Build the Talent Your Organization Needs

## Apprenticeship-as-a-Service

SkillStorm, a leader in workforce development, in partnership with Apprenti, is offering an innovative solution designed to lower the hurdles and training costs associated with building and expanding your technical workforce. We enable businesses to leverage apprenticeships on a smaller scale, developing and diversifying by hiring new employees or upskilling current employees for their first job in tech.

## All the Benefits & Resources. None of the Administration.



**DOL Approved  
Apprenticeship  
Certificate**



**Approved &  
Certified  
Instructors**



**Tech Partner  
Curricula  
& Labs**



**Enroll 2 or  
More  
Employees**



**Administrative  
& Program  
Support**

## Upskill Your Workforce at No Cost

Our expert trainers provide a 16-week immersive, hands-on training leading to globally recognized certifications. Apprentices emerge equipped with job-ready skills, aligned with your company culture - increasing retention, diversity, and productivity.

## Software Development Engineer Cohort Starting March 3, 2025

Build a future-ready workforce by upskilling new and existing employees in software development. Our 16-week immersive program offers comprehensive training using official curriculum, labs, and certifications.

- Weekly Technical Exam
- Weekly Technical Interview
- Weekly Technical Presentation
- Three Enterprise-Level Projects

**Java:** Object-Oriented Programming, Collections, Multithreading, JUnit, Maven/Gradle. SQL, NoSQL.

**JavaScript & React:** HTML/CSS, ES6, React Architecture, Unit Testing, React Router, Fetch API, Material UI, Internationalization (i18n).

**DevOps & Cloud:** AWS, EC2, Serverless AWS Lambda, CI/CD, Docker, Kubernetes, Agile Fundamentals.

**Spring:** Dependency Injection, Spring MVC, Spring Boot, REST Architecture, Microservices, Spring Cloud, RabbitMQ.



## Build Your Workforce Today

Schedule a call to discover how our program increases diverse tech talent, cuts costs, and boosts retention.

# Software Development Engineer

## 640 HOUR BUILD PLAN

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#### Curriculum:

**Java (Week 1-6):** JDK. Object-Oriented Programming (OOP). Control Flow. Strings and Arrays. Packages and Modules. Object-Oriented Design (OOD). Processes and Threads. I/O Streams. Libraries for Parsing CSV, JSON, XML. Java 8 Concepts. Logging. Debugger and Troubleshooting in IDE. Maven/Gradle. Managing Libraries and Dependencies. JUnit/TestNG Tests. TDD. Agile and Scrum. Pair Programming. Git and GitHub. Branch, Fetch, Rebase, Stash, Revert, Config. Pull Requests, GitHub Pages and Documentation, Code Reviews. Resolving Merge Conflicts.

**Spring (Week 7-10):** Spring Framework, Dependency Injection, Annotation-based Configuration. Spring MVC, Spring Boot, Spring Data, REST Architecture, Spring Security. API Development with Spring. Swagger. REST APIs. HTTP GET, POST, PUT, DELETE. HTTP Request and Response. Response Status Codes.

**Web Development & React (Week 11-14):** HTML. CSS. Responsive Web Design. CSS Flexbox. JavaScript. Arrays, Conditionals, and Loops. Objects and Functions. DOM and Events. React, Function-based Components. State and Props. Hooks, Redux, Flux Pattern. Axios. Material UI and Internationalization (i18n).

**Data Structure & Algorithms (Week 15):** Collections and Generics. Data Structures. Array, Stack, Queue, LinkedList, Trees, Graphs, HashMap. Big O Notation. Linear, Quadratic, Logarithmic, Exponential, and Constant Complexity. Recursion. Hash Tables and Binary Search Trees. Fundamental Data Structures. Implementing Sorting Algorithms. Exception Handling, Errors, Edge Cases, and Input Validation. Data Structures, Conditions, Loops, Variables, Functions, Object Oriented Design (OOD), DRY/SOLID Principles.

**Cloud Native Introduction (Week 16):** AWS Overview. Cloud Computing. CI/CD Pipelines. Microservice Architecture. Testing. Distributed Systems and Cloud. Eventual Consistency. Vertical and Horizontal Scaling. Messaging and Event-Driven Architecture.

#### Projects:

- Weekly Technical Exam
- Weekly Technical Interview
- Weekly Technical Presentation
- Three Enterprise-Level Projects

#### Certifications:



Oracle Certified  
Foundations  
Associate - Java



AWS Cloud  
Practitioner

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