Frontend Development

- Frontend Developer

  - What They Do: Builds user interfaces (webpages, buttons, layouts)

  - What to Learn: HTML, CSS, JavaScript, React/Vue/Angular, Git, Responsive Design, Figma (basics)

- UI/UX Designer

  - What They Do: Designs user experience and interface

  - What to Learn: Figma, Adobe XD, Design Principles, User Research, Prototyping

Backend Development

- Backend Developer

  - What They Do: Manages server logic, databases, APIs

  - What to Learn: Python, Java, Node.js, Express, SQL, MongoDB, REST APIs, Authentication, Git

- Database Administrator (DBA)

  - What They Do: Manages and optimizes databases

  - What to Learn: SQL, Database Design, MySQL/PostgreSQL, Backup & Recovery, Indexing

Full-Stack Development

- Full-Stack Developer

  - What They Do: Works on both frontend and backend

  - What to Learn: Frontend (React, HTML/CSS/JS) + Backend (Node.js/Python) + Database + Git + APIs

Mobile App Development

- Android Developer

  - What They Do: Builds Android apps

  - What to Learn: Java, Kotlin, Android Studio, XML UI, Firebase

- iOS Developer

  - What They Do: Builds iPhone apps

  - What to Learn: Swift, Xcode, UIKit/SwiftUI, Firebase

- Cross-platform Developer

  - What They Do: Builds apps for both iOS and Android

  - What to Learn: Flutter (Dart), React Native, Git, API Integration

DevOps / Cloud Development

- DevOps Engineer

- What They Do: Automates deployments, maintains infrastructure

  - What to Learn: Linux, Bash, Docker, Kubernetes, Jenkins, AWS/Azure, CI/CD, Monitoring

- Cloud Engineer

  - What They Do: Manages cloud-based systems

  - What to Learn: AWS, GCP, Azure, Terraform, Networking Basics, Cloud Security

Software Testing / QA

- Manual Tester

  - What They Do: Tests apps manually for bugs

  - What to Learn: Test Cases, Test Planning, Bug Reporting, SDLC Basics

- Automation Tester

  - What They Do: Writes scripts to test apps

  - What to Learn: Selenium, Java/Python, TestNG, JUnit, CI/CD, Git

Business/Project Side

- Business Analyst

  - What They Do: Gathers and explains requirements

  - What to Learn: Flowcharts, Requirements Docs, Agile, Jira, Communication Skills

- Project Manager

  - What They Do: Oversees the whole development process

  - What to Learn: Agile/Scrum, Jira, Communication, Leadership, Scheduling Tools