Frontend Development:

- This domain focuses on building the visible part of websites and applications. You will need to master HTML, CSS, and JavaScript. Popular frameworks and libraries like React, Vue.js, or Angular are essential. Additionally, tools for version control (Git), package management (npm), and testing frameworks should be familiar.
- https://roadmap.sh/frontend

Backend Development:

- Backend development involves server-side logic, database management, and APIs. You should learn programming languages like Python, Java, or Node.js, and understand databases (SQL/NoSQL). Knowledge of server management, RESTful APIs, and security practices is crucial.
- https://roadmap.sh/backend

DevOps:

- DevOps emphasizes collaboration between development and IT operations to improve software delivery. Key skills include automation (using tools like Docker, Kubernetes), cloud computing (AWS, Azure), and Continuous Integration/Continuous Delivery (CI/CD) pipelines.
- https://roadmap.sh/devops

Full Stack Development:

- Full Stack combines both frontend and backend expertise. You need to have a strong grasp of server management, databases, and user interfaces. Familiarity with tools like Docker, Git, and cloud services is essential.
- https://roadmap.sh/full-stack

AI and Data Science:

- For AI and Data Science, knowledge in mathematics, machine learning algorithms, and tools like TensorFlow and PyTorch is key. You should be comfortable with data analysis techniques and languages like Python or R, and know how to work with large datasets using SQL or big data tools like Hadoop and Spark.
- https://roadmap.sh/ai-data-scientist

Data Analyst:

- A Data Analyst focuses on extracting insights from data. Proficiency in Excel, SQL, and visualization tools like Tableau or Power BI is essential. Analysts should also understand data manipulation using Python or R.
- https://roadmap.sh/data-analyst

Android Development:

- Android developers work with Kotlin or Java to create applications for Android platforms. Android Studio is the main development environment, and understanding of mobile-specific UI/UX, APIs, and lifecycle management is crucial.
- https://roadmap.sh/android

Cloud Computing:

- Cloud Computing involves using services like AWS, Azure, or Google Cloud for scalable, on-demand computing. Skills in networking, virtualization, security, and automation tools like Terraform are important.
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PostgreSQL:

- PostgreSQL is a powerful open-source database. Learning how to write SQL queries, optimize databases, and manage backups and scaling are essential skills.
- https://roadmap.sh/postgresql-dba

Blockchain:

- Blockchain development focuses on decentralized applications (dApps). Skills in cryptography, smart contracts (using platforms like Ethereum), and blockchain architecture are crucial.
- https://roadmap.sh/blockchain

Game Development:

- Game developers use engines like Unity or Unreal Engine, combined with languages such as C# or C++. Understanding of graphics programming, physics engines, and performance optimization is essential.
- https://roadmap.sh/game-developer