

7 Roadmaps for Programmers

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Company: DEV Community

Location: Valledupar

Category: computer-and-mathematical

Learning to code may sound complex, but it might be the perfect adventure for you! But where do you begin? Don't worry; it's not as complicated as it sounds. Whether you dream of building websites, mobile apps, games, or even diving into machine learning, this guide will help you navigate the coding world in a simple and fun way.

1. Web Development: Building Awesome Websites If you want to create websites like a pro, start with these steps: - Step 1: Learn HTML to understand how websites are structured. - Step 2: Dive into CSS to make your website look cool. - Step 4: Explore front-end frameworks like React or Vue. - Step 5: Connect to a backend using tools like Firebase or Supabase. - Step 6: Learn Node.js for server-side code. - Step 7: Use a meta framework like Next.js to bring it all together. Remember, there are many side quests in web development, so find what excites you!

2. Mobile App Development: Crafting Apps for iOS and Android If creating mobile apps is your goal, follow these steps: - Tools you need: Get a Mac for iOS or Android Studio for Android. - Step 1: Learn Swift for iOS or Java/Kotlin for Android. - Step 2: Explore Firebase or AWS Amplify for the backend. - Step 3: Alternatively, learn cross-platform frameworks like Flutter or React Native. If you're into desktop apps, consider these options: - For Mac OS: Swift is your go-to language. - For Windows: Use C# with .NET or .NET Maui.

Hardware and IoT: Bringing Code to the Physical World Interested in making robots or IoT devices? Start with a Raspberry Pi: - Step 2: Pick up Python for coding. - Step 3: Connect circuits and control them with Python. - Step 4: Explore Arduino for microcontroller projects.

5. Game Development: Creating Your Own Virtual Worlds Building games is a blast! Try these steps: - Tools you need: Unity or Godot game engines. - Step 2: Learn C# for Unity or a

beginner-friendly language for Godot. - Step 3: Understand game physics and 3D modeling.

Machine learning is exciting but requires some groundwork: - Step 1: Join Kaggle for real-world data challenges. - Step 2: Learn Python, and libraries like Pandas and Matplotlib. - Step 3: Dive into scikit-learn for basic ML algorithms. - Step 4: Advance to TensorFlow or PyTorch for deep neural networks.

7. Systems Engineering: The Deep Dive into Coding Basics

If you want to understand the core of coding, try this path: - Step 1: Start with C programming language. - Step 3: Learn algorithms for survival interviews. - Step 4: Explore languages like Rust or C++ for systems engineering.

Figma is a fantastic tool for developers. The majority of designers use Figma to transfer web and mobile app blueprints. Given this tendency, web and mobile developers need to familiarize themselves with Figma to work with UI/UX designers. If you don't know how to work with Figma Design, you will fall behind in modern coding projects, leading to unproductive website building, and you will have to learn it in the future. So sign up now and play around with it before your colleagues or boss blame you. ????

Conclusion Remember, the key to success is focus and practice. Don't forget to learn universal skills like Git, Linux, and networking. Enjoy your coding journey, and don't worry about feeling overwhelmed – it's all part of the adventure! Comment below your thoughts. It might help someone in the world.

Sanebox is a fantastic tool that helps you take control of your email. It organizes your email by sorting unimportant emails away from your inbox. It does this by creating a folder on your email account called SaneLater. All emails that are deemed not important are automatically filtered to this folder. Stay tuned for more valuable content, and if you find it helpful, you may also like my YouTube channel .

Templates let you quickly answer FAQs or store snippets for re-use. I am a technology and informatics professor and a fullstack web developer in constant training: frontend and backend development.

Stanford University (Machine Learning, Andrew Ng) [OTW] Stanford University (Machine Learning, Andrew Ng) [OTW] I am a new to learning how to code, enjoying it so far. At the moment learning with Codecademy. Just start my software engineering journey and I am dedicated to learning new things. As new to this world of computer science I confused but at the right time I find this which I think help me a lot. Nice article! Thanks for sharing.

Young boy from Ghana. Web developer background, but currently into AI, ML, robotics, software engineering and game dev. Student of PRESEC, Legon Location Accra, Ghana Education Presbyterian Boys' Secondary School (PRESEC), Legon I have to admit, this is very useful especially for me who is just jumping from one end of developing to another, so thanks a lot Are you sure you want to hide this comment? It

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