TO BE A BETTER PROGRAMMER Whether you are just getting into programming or a veteran, these steps will help you achieve mastery over the craft of programming.

STEPS

Learning web development (e.g. JavaScript) is only going to get you so far.

Study fundamentals of CS - Memory allocation, Multi-threading, Data Structures, Algorithms, Complexity Notations etc. It'll alter the way you

So you have working code? Think you are done: That's when you begin with the improvements and refactoring to make the code better and

Pick an interesting problem to solve. The scale and the complexity of the problem at hand

Come up with at least couple of approaches on paper. Weigh the pros and cons of each.

Code regularly. Code for yourself, not just for a

Do what makes you happy. Find your interest -Puzzles, Personal project, Open Source project, work-related tasks etc.

You will be a better learner when you teach and share you knowledge with others. To teach others, you will have to first grasp the concepts

Teach others like you. Or in the local community Write a blog. Share your learning online. Remember, you don't need to be an expert to

Always strive to improve code. Even if it is fully functional, there will always be room for improvements.

If you are working on a large project, reduce the Technical Debt with every commit. Never write code without backing it up with Unit tests.

Learn CS **Fundamentals**

Concepts Over Tools

Think Before

You Code

Practice. Learn.

Perfect.

Teach. Share.

Care About the Quality

Ignore the Hype

Acquire

Domain Knowledge

Read

Begin When you Think you Are Done

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8 There is a new programming language or a framework every week. Do not try to learn them all It'll be an overwhelming burden Keep up with major technical shifts. They occur only once a decade or so. Cloud computing in the 2000s. Block Chains in 2010s etc. Acquire domain knowledge (The What) in the areas you are working in. Do this by contributing to Product requirements and participating in Customer engagements

This knowledge will help immensely in coding the solution (The How). Read books, especially those about Good
Coding practices, Design Patterns, and
Architecture principles. It is recommended that
all programmers read "Clean Code" and "The Books!

Bonus Steps ak at Conferences omfortable with your IDE 't be afraid to rewrite code { TECHTOWN } Author: Deepak Karanth Presented By: Techtown

c Reviews. Try Pair Programming ent language than the one you are