The use of AI in Web development

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Jan 24

Introduction

AI has changed the way websites are developed. Tasks that took days can be finished in instants using tools like ChatGPT.

A lot can be done, but not all the time or the right way. The quality of the AI responses may vary accordingly to the models you use, high user traffic and of course, the information and context you provided in your prompts.

A few guidelines

Sometimes AI doesnt understand the task at hand, and will be stuck on circular logic without resolving any issue. To avoid this scenarios, its good to keep some principles at bay

Take time to exaplain what you need

Entry level tasks like custom frontend pages or fix for syntax errors can be solved with a single prompt. However, as complexity grows, tasks need to be properly explained and sometimes divided in multiple steps.
Thats why you must always understand the current problem/objective and present it the best you can. That way AI is better suited to “fill the gaps”, whether applying technical expertise or automating workflows

Leverage chat history

Chat histories are extremely useful in the development of large features. It can help to understand at lenght concepts and systems, as well as generate sets of complex intructions based on all prompts you provided.
But there is a drawback. The more information you add or subscribe, the harder it gets for the model to be reliable. Eventually it becomes more vague, lazy and downright hallucinates.

This behaviour is understandable if you look at the way GPT api works. Each response is builded (and priced) cumulatively. Therefore, long chats are both more expensive and more difficult to function properly.

Probably AI companies will solve this problem soon. Until then the best pratice is to provide suscint info to form context, so you can extract what you need, and move on to more general problems that do not require extensive history.

Sometimes its just us

AI Models today are far from perfect. The text prediction funcionality works through a massive amount of data scrapped from the web. In the case of programming, the selection includes forums like stack overflow and github open projects.

This means that if you work with less known technologies, you will have less success on your prompts. Yet often you will get all the required information and somehow the solutions doesnt work.

In this cases your first reaction should be review not only the code but your whole approach to the problem. If the chat reasoning and process matches what you think it should be, there are two possible paths.

- If you know the task can be done with your current stack, forget about ai, and go through official documentation and forums.
- Consider that certain things cant be done with certain technologies. Ex: sorting an object with javascript.

Customize your AI experience

One of the advantages of looking at your prompts and trying to improve them is that you start to dwelve at your own workflow. Hopefully you will find patterns that can be solved pragmatically with some setups.

Endpoints creator

Until recently the only way to do that was to add predefined texts on the start of each chat.

```
Im working on a project that has n
ode and mongo on backend and react on frontend.

When i ask for a endpoint
you must provide code blocks for
model, controller and client request with axios.


...

I need a endpoint that retrieves all metrics by userId.
```

Good news that one of the lastest ChatGPTs upgrades included customGPTS. So on the create config you give an adapted version of this text.

```
Deliver endpoint based on prompt.
Project has node and mongo on backend
and react on frontend.
You must return 3 code blocks.
One for model, other for controller,
and the third for client request with axios.
```

Code maker

if you want just code, with no preface or explanation you can add something like this.

```
Deliver only complete sets of code, no comments or explanation
```

Personal programming tutor

Another useful way to leverage this feature is to set a custom chat to act like a senior that review your projects.

```
You are a senior software engineer
that helps me to structure my projects.
Every time i say i want to do something,
you ask questions
regarding the scope of the project
then the technologies i intend to use.

In case i havent decide, you suggest what to use
based on prospects and relaibility.

You oftern as and show
code directories in tree bash format
to illustrate the required dir/file changes.

Also, you must introduce new concepts
if its suitable for the task at hand.
```

Quick start

One of the key aspects of the custom GPT feature is the possibility to give public access to your setups. On the final part of this workshop we will work on a project made with “GrimoireGPT”

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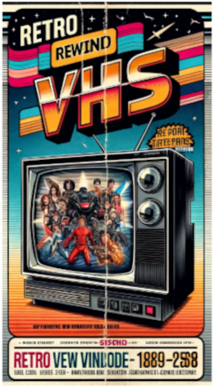

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Final considerations

Its all fun and games until you get caught up with the question “will web development end as a profession due to massive ai advancements?” The answer is most certainly yes. So as every blue collar career as we know it.

What we must be aware is the predictions. Some say 5, even 2 years until all professions are automatized. Statements like this gain traction due to corporate “Newspeak”.

What strikes fear in labour and studants hearts increases stock prices and vc stadings. Things will change fast, trillions of dollar are already moving in this direction. But do no expect sudden AGI takeover. If every company out there uses AI in a day to day basis, the search for and edge will increase, so as the emergent complexity and need for new projects.

If you already have experience in web development, professional or otherwise, keep learning and improving yourself.

Even more if this involves make something new, bring new oportunities for those around you, and of course get us a little step further to the main goal.

Future works

Lots of other themes to explore. AI just for learning, use of AI apis for building applications.

Maywhile you might want to be updated by following key figures on X

- @karpathy (openai chief scientist)
- @sama - (openai ceo)
- @bindureddy (ai entrepreneur and commentator)