# GPT Survey: A Programmer's Perspective

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Intel FLEX

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# Outline


1. Lesson 1: Prompt Engineering: Principles, Techniques, and Extensions
2. Lesson 2: Case Studies of Coding Tasks with GPT
3. Lesson 3: Integrate GPT in Whole Coding Lifecycle
4. Lesson 4: Cutting-Edge GPT Projects and Showcases
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6. References

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# References I


1. SPQA: The AI-based Architecture That'll Replace Most Existing Software.
   - https://danielmiessler.com/blog/spqa-ai-architecture-replace-existing-software
2. Chat GPT For Programming: 100+ Coding Prompts For Chat GPT.
   - https://www.greataiprompts.com/chat-gpt/best-coding-prompts-for-chat-gpt
3. Chat-GPT Cheat Sheet V2 : coolguides.
   - Reddit: https://www.reddit.com/r/coolguides/comments/12ouw8o/chatgpt_cheat_sheet_v2
   - Cheatsheet: https://i.redd.it/eunvmybl9cua1.png
4. StarCoder: A State-of-the-Art LLM for Code.
   - HuggingFace: https://huggingface.co/bigcode/starcoder
   - GitHub: https://github.com/bigcode-project/starcoder
   - Blog: https://huggingface.co/blog/starcoder
   - Paper: https://drive.google.com/file/d/1cN-b9GnWtHzQRoE7M7gAEyivY0kl4BYs/view
5. Harnessing the Power of LLMs in Practice: A Survey on ChatGPT and Beyond.
   - arXiv: https://arxiv.org/abs/2304.13712
   - GitHub: https://github.com/mooler0410/llmspracticalguide
6. ChatGPT Prompt Engineering for Developers.
   - Official Course: https://www.deeplearning.ai/short-courses/chatgpt-prompt-engineering-for-developers/
   - Notebooks: https://github.com/datawhalechina/prompt-engineering-for-developers/tree/main
   - BiliBili: https://www.bilibili.com/video/BV1No4y1t7Zn
7. FlowGPT — the best ChatGPT prompts&AI prompts community.
   - https://flowgpt.com/
8. awesome-chatgpt-prompts: This repo includes ChatGPT prompt curation to use ChatGPT better.
   - GitHub: https://github.com/f/awesome-chatgpt-prompts
   - Webpage: https://prompts.chat/
   - HuggingFace: https://huggingface.co/datasets/fka/awesome-chatgpt-prompts

# References II


9. The Art of ChatGPT Prompting: A Guide to Crafting Clear and Effective Prompts.
   - https://app.gumroad.com/d/e2e51298d50b8c1bd6c6950a6d11a772

10. PGF/TikZ Manual.
   - PDF: http://mirrors.ctan.org/graphics/pgf/base/doc/pgfmanual.pdf
   - Online Doc: https://tikz.dev/
   - GitHub: https://github.com/pgf-tikz/pgf

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