



DevOps for Defense

April 2023

**The Age of AI
Has Begun**

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<https://devopsfordefense.org>

<https://www.meetup.com/DevOps-for-Defense/>

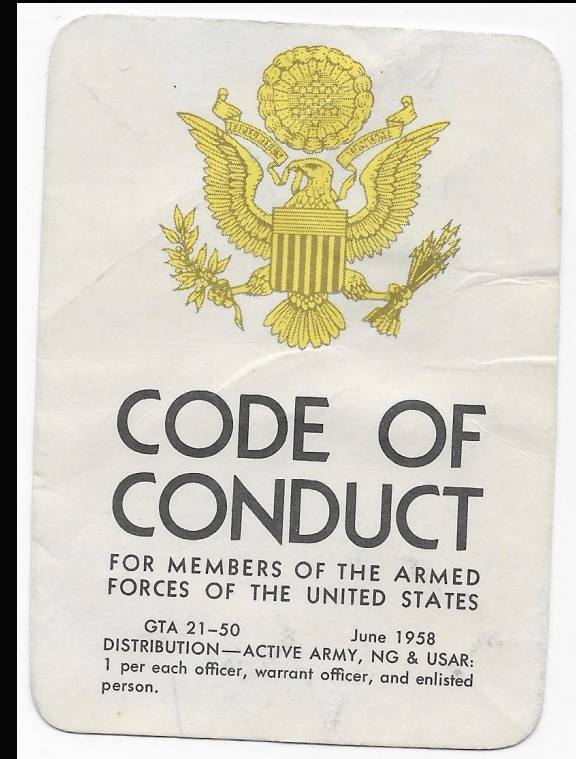
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DevOps for Defense Meetup: Code of Conduct

- UNCLASSIFIED ONLY!!!!
- Treat each other with respect and professionalism.
- Do not talk about private, sensitive, or proprietary work.
- Do talk about your experiences, needs, desires to improve work in our domain.
- Do share your thoughts.
- Do learn from others.
- Do respect & tip your bartenders!



Recent AI Advancements



GPT-4



GitHub Copilot

Your AI pair programmer



v5



Microsoft 365 Copilot

The World Changed Forever in March 2023

The Bad News



AI has come to take
over your job!

Image Generated by Midjourney AI
Prompt: angry shiny metallic
terminator style robots writing software
in a modern open plan agile software
development environment

The Good News

The AI doesn't need to
use humans as
batteries...yet!



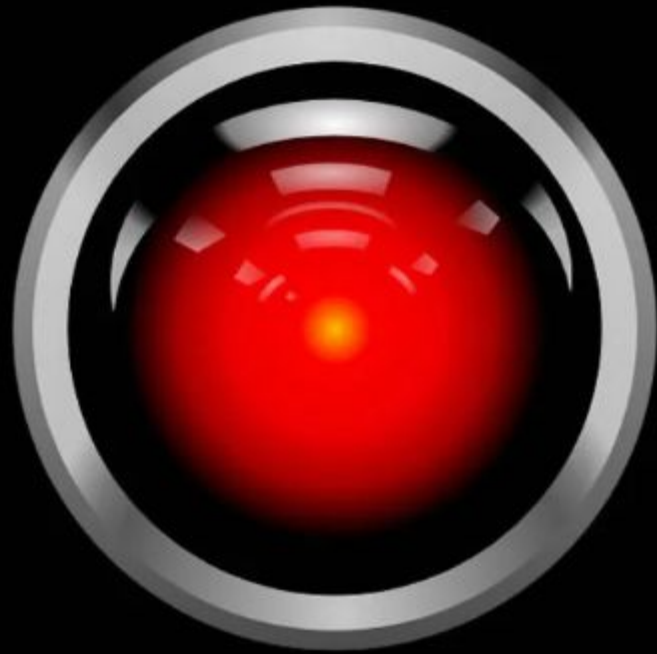
What you Need to Know



Resistance is Futile

So What The Deal?

- GPT-4, GitHub Copilot X, and Office 365 X are some of the latest AI advancements that will change the way software and system engineers work in the future.
- GPT-4 will improve natural language processing and enable developers to create complex programs using simple language.
- GitHub Copilot X will automate coding tasks and reduce the time and effort required to write code, making development faster and more efficient.
- Office 365 X will integrate AI-based tools that will help developers manage code more efficiently, identify errors, and optimize the code for better performance.
- These advancements will make it easier for developers to create new products and services, accelerate software development, and improve the quality and accuracy of the code. It will also reduce the need for manual labor in programming and enable engineers to focus on more creative and innovative tasks.



Generated by ChatGPT using Prompt:
write a 5 point summary in bullet form
describing how recent AI advancements
with GPT-4, GitHub Copilot X, and Office 365
X will change the way software engineers
and system engineers will work in the future

Example: Using AI for Office Tasks



Source: <https://youtu.be/ebls5x-gb0s>

Example: Using AI for SW Development



Source: <https://youtu.be/4RfD5JiXt3A>

Let's Try it Out...for Free using Bing Chat



[Bing AI - Search](#)

Some Parting Thoughts

The background of the slide features a dark blue field filled with a pattern of white and light blue binary digits (0s and 1s). In the upper center, there is a glowing blue wireframe model of a human brain. In the lower right, a blue, segmented robotic arm with a gripper is shown, appearing to hold or interact with the brain.

- Don't Ignore This...The Genie is Out of the Bottle
 - Yes, this is like cheating...but everyone is or will be cheating
 - The AI will never be as bad as it is today
 - Eventually we'll all be using AI in our personal and professional lives. Don't get left behind!
 - You probably won't get replaced by AI. You'll get replaced by a person who uses AI to double their productivity.
- Be Careful...There are a Lot of Unknowns
 - It isn't clear what sort of policies will be adopted by companies regarding AI
 - It isn't clear what privacy and data protections will be with AI
 - Don't send the AI any private, proprietary, or CUI data!

DevOps Resources

<https://devopsfordefense.org/resources/>

<https://www.meetup.com/DevOps-for-Defense/>
<https://github.com/jondavid-black/DevOpsForDefense>
devopsfordefense@gmail.com

Books / Publications:

Conference Presentations (YouTube):

- DevOps Enterprise Summit (DOES)
- IT Revolution
- Velocity
- GoTo

