











astana hub

GOVERNIMENT & **BUSINESS DAY**

HOW TO SECURE YOUR CYBERSECURITY CAREER INTHE AI WORLD

SPEAKER

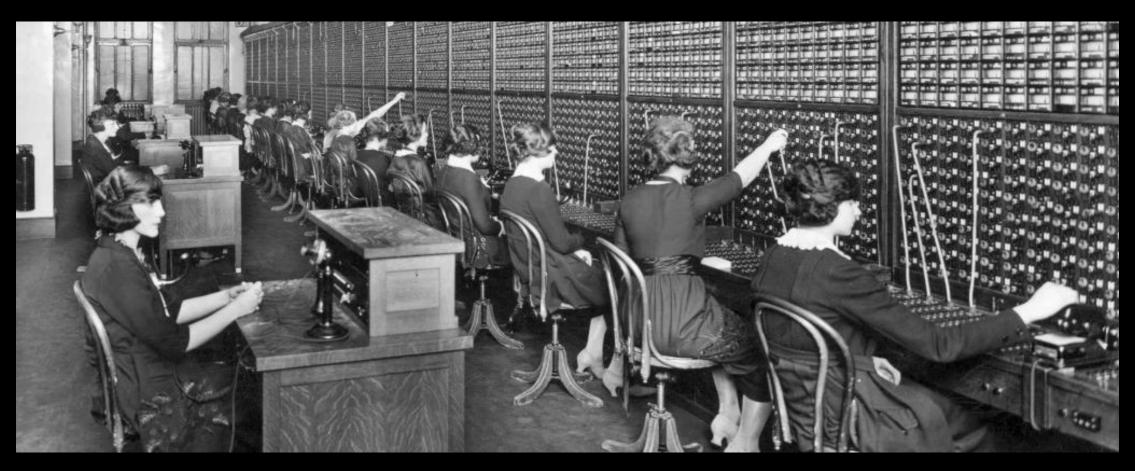
Michael Markevich

Michael Markevich

Cybersecurity Expert

- System administrator
- Penetration tester and IT auditor
- Security team lead and CISO
- University lecturer and career mentor
- Startup founder and advisor



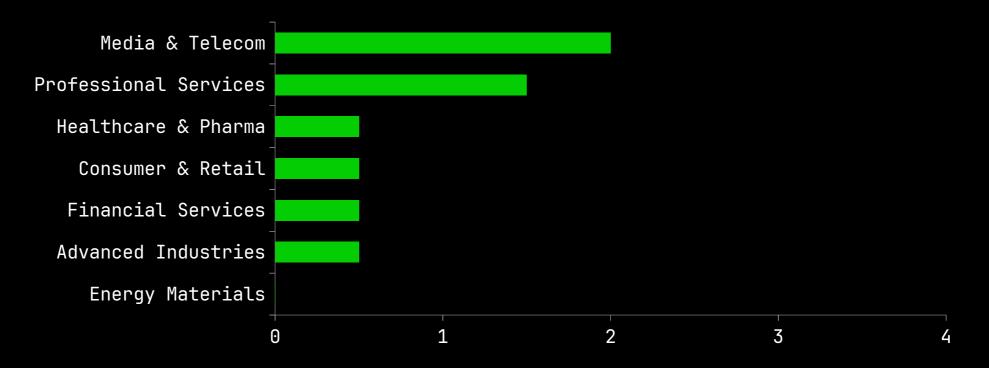


Telephone switchboard operators (1930-s)



Taxi drivers in 2030-s?

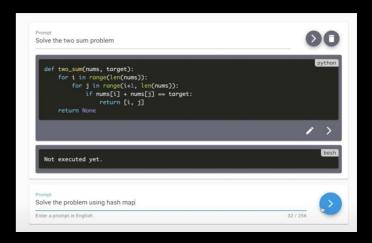
GenAI disruption index: impact of AI per industry



Source: "The GenAI Divide: State Of AI In Business 2025" by Project NANDA, MIT.

So what about IT (and cyber) jobs?

```
s(this)
starget = $($this.attr('data-la's)
starget = $($this.attr('data-la's))
starget.has(!?=#[^\s]+$)/, '')
sptions = $.extend('carousel')) re
sptions = $.extend({}, $target.da
slideIndex = $this.attr('data-slideIndex) options.interval = fa
```



According to the research, from late 2022 to July 2025:

- Employment for software engineers aged 22-25 declined by 20%.
- 2/ Overall employment for people aged 22-25 declined by 6% in all AI-exposed jobs.
- Job market decline is driven by automation, but not with augmentation.

Source: "Canaries in the Coal Mine? Six Facts about the Recent Employment Effects of Artificial Intelligence" by
Erik Brynjolfsson, Bharat Chandar, and Ruyu Chen.

When AI automates the job



This profession will likely disappear :(

When AI boosts the skills



The professionals have higher chances to be hired and succeed :)



Software developers

QA engineers

Technical support staff

SOC analysts

Penetration testers

Compliance officers

Risk analysts

Consultants



Cybersecurity domain experts
Security researchers
Cryptographers
Product managers
Software and IT architects

The entry barrrier is higher

The overall complexity of work for humans grows, as AI takes the easiest tasks.

So how to succeed?

1/ Carefully select what you study next.

Are you styding the same that AI have already learned?

2/ Use AI to augment your work.

Avoid jobs and projects that can be automated by AI.

3/ Context is the king, own the context.

Commonly used AI tools become better and better, but most of them (still) miss the context of your specific task or situation.

4/ Learn how to (ethically) hack AI.

AI is just one more layer in the technology stack. The more people use AI the more opportunities to research and find vulnerablilites.

5/ Build your personal brand as cybersecurity professional

A brand helps creating visibility and trust, and you can stand out compared to others (including AI agents).













THANK YOU FOR YOUR ATTEINTION

SPEAKER

Michael Markevich

