



WILL AI REPLACE ME?

Information Systems Director

Information Technology, Telecommunications, and Security

The position of Chief Information Officer (CIO) requires a strategic vision and a holistic understanding of the company's needs. While AI-based tools can assist in monitoring and optimizing information systems, as well as enhancing security, the primary responsibility of aligning technology with business goals remains inherently human. Moreover, overseeing IT teams and resources requires leadership skills, human interaction, and an ability to understand a range of interdepartmental needs.

Thus, while AI can bring improvements and optimizations to certain aspects, the strategic and interpersonal nature of the role limits the productivity gains that AI might provide.

Automation degree: 26.67%

Moderate but identified impact of AI on this job thanks to AI



Main tasks

This section reviews the 3 main tasks associated with the job studied and assesses the potential level of automation induced by AI (« **AI Automation Impact** »). The modeling uses 8 criteria detailed on the « **Methodology** » page.

Tasks	AI Automation Impact
Define the company's IT strategy in alignment with its overall objectives.	Moderate
Supervise all IT resources, whether infrastructures, applications, or teams.	Moderate
Ensure the security, evolution, and optimization of information systems.	Significant

Impact on skills

At-risk Skills ↓	
Detailed technical decision-making.	Historically, the CIO might have been involved in detailed technical decisions, such as the choice of a specific technology or framework. With more autonomous and agile technical teams and the advent of DevOps, these decisions tend to be made closer to the ground. The role of the CIO is shifting towards strategic oversight, leaving technical decision-making at the operational level to their teams.
Promoting digital literacy within the company.	As technology evolves, there will always be a gap between the « digital natives » and those who are less comfortable with technology. The CIO will constantly need to bridge this gap, helping to demystify technology and promoting understanding and effective use of digital tools.
Future-proof Skills ↑	
Planning detailed IT resource capacity.	Once, the CIO could have been directly involved in detailed capacity planning, like precise management of servers, storage, and bandwidth. Today, with cloud computing and on-demand services, these details are often handled automatically or are the responsibility of specialized teams. The CIO will focus more on the overall cloud strategy and on the financial and compliance implications.
Anticipating the ethical and societal consequences of technological decisions.	As technology becomes increasingly ubiquitous, its impact on society and ethics becomes a major concern. A visionary CIO must not only consider how a technology can benefit a company but also how it could affect individuals, society at large, and ensure that these impacts are taken into account in the company's technology strategy.

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