Head of software engineering

Proficiency level

X New Gen AI skills	X Transferrable skills at the same proficiency level
X New skills	X Transferrable skills at a higher proficiency level[1]

Skills Framework track	Product development

Job function	Engineering and tech.

Job family	Software engineer

Sub-sectors	Retail banking, corporate banking, investment banking, private banking and wealth management, asset management, insurance

Expected augmentation by Gen AI	**Do more:** Gen AI can enhance the formulation and alignment of software development vision and strategy by synthesizing emerging technologies and market trends into actionable insights. Gen AI tools can also optimize the evaluation of software design methodologies and processes by automating the assessment of their effectiveness and suitability, facilitating the adoption of best practices

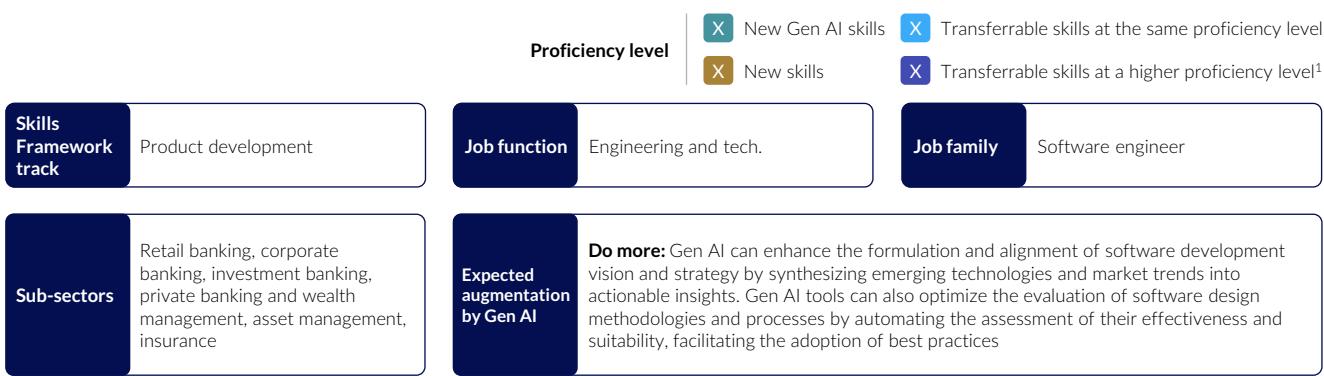**DO MORE**

Key tasks that can benefit from Gen AI

Critical work functions	Key tasks
Establish standards and governance for software engineering	Evaluate viability of recommended changes in software development methodologies, processes, and standards for implementation
	Formulate the organization's software development governance framework and processes
	Establish KPIs and SLAs for the implementation and monitoring of software
	Evaluate the suitability of best practices in software development for implementation in the organization
Develop software development strategy	Define the organization's DevOps strategy, guidelines, and standards
	Define software development vision and strategy and ensure alignment with the organization's architecture
	Anticipate the impact of external technological developments on the organization's software architecture and strategy
	Ensure that the software development strategy and processes keep pace with the latest data protection and cybersecurity practices and guidelines
Oversee software development	Explore new methodologies in software development
	Oversee the translation of business requirements to software development initiatives and projects
	Evaluate processes and design methodologies to be used in software design
Manage people and organization	Develop strategies for resource planning and utilization

New Gen AI skills

Prompt design	3	Gen AI model evaluation	5	Responsible AI and Gen AI practices	5
Gen AI principles and applications	3	Gen AI application development and deployment	5	Gen AI models technical aspects of security and ethics	5
Gen AI model selection	5	Gen AI model development and fine tuning	5	Prompt engineering	5

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1. Transferrable skills with an increase in one level of proficiency is considered easier to acquire than transferable skills with multiple levels of increase in proficiency, followed by net new additional skills. Depending on job redesign for the financial institution, the financial institution will have to pick select skills to reskill employees on, via a combination of on-the-job training and existing courses.

Source: SkillsFuture Skills Framework