

Associate software engineer

Skills Framework track

Software and applications

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 requirements analysis process by automating the collection and analysis of user requirements, generating detailed documentation and insightful summaries. Gen AI tools can also optimize the preparation of test plans and test cases by automating the generation of unit, integration, and system test cases, and efficiently analyzing test execution results

Key tasks that can benefit from Gen AI

Critical work functions	Key tasks
Analyze user and business requirements	<p>Assist in writing proposals and communication materials to pitch ideas</p> <p>Conduct requirements analysis based on user requirements</p> <p>Prepare requirements documentation, descriptions of interfaces, and functional and non-functional requirements</p>
Oversee software testing	<p>Collect and analyze test execution results</p> <p>Assist with the development of the test plans and test cases</p>
Manage the design of software	<p>Apply selected software design pattern to the design of software components or modules</p> <p>Participate in software design reviews</p> <p>Assist in architectural design tasks associated with use of standard notations, diagramming techniques, models, and patterns</p> <p>Assist in development and use of simulation and prototypes to evaluate software design quality</p>
Oversee security provisions in software	<p>Perform code reviews to identify security vulnerabilities</p>
Manage software construction processes	<p>Create and execute unit tests for delivered codes</p> <p>Collect standard measures of code quality and size</p> <p>Generate codes and systems from models</p>
Manage software management configuration	<p>Generate, classify, and manage problem reports</p>

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