Senior Full Stack Engineer

Requisition	R0000191969
Employer	Royal Bank of Canada
Canadian locations	Vancouver (Colombie-Britannique, Canada)
Primary address	745 THURLOW ST, VANCOUVER, BC V6E 3V5, Canada
Posted	November 26, 2026
Date in the description	November 6, 2026
Posted deadline	December 26, 2026
Last day to apply	December 25, 2026
Business area	TECHNOLOGY AND OPERATIONS
Employment status	Regular
Work schedule	Full time · 37.5 h per week
Pay type	Salaried

The position

As Senior Full Stack Engineer in AI Engineering within US Functions Technology you will be a hands-on contributor helping modernize how US corporate functions build and run their technology. You will work on back-end services, APIs, and integrations for applications in Fraud, AML, Finance, and Risk.

A core part of the role is supporting the integration of CNB US Functions technology into RBC's enterprise platforms. You will help consolidate applications from CNB Finance and Audit technology onto the RBC common platform, working with technology teams so that business stakeholders can adopt new solutions smoothly.

You will contribute across the delivery lifecycle, from development and integration testing through to production deployment. You will work within established CI/CD pipelines and help keep applications secure, compliant, and well maintained. This includes remediating security vulnerabilities and supporting application control assessments and data attestations as they arise.

This role provides opportunities for the application of AI and emerging technologies, while focusing on reliable and well integrated engineering and data solutions.

Responsibilities

- Develop, test and maintain backup services, APIs and Web services for fraud, AML, finance and risk applications
- Implement integration components, including SSO, security and messaging (Kafka or MQ), in line with the integration plan.
- Work mainly with the RBC careers portal stack, but also take advantage of Python for script usage and automation cases
- Develop and deploy native cloud AI/ML solutions using AWS, Azure or GCP, ensuring scalability, reliability and efficiency through Kubernetes, Docker, etc.
- Work in existing CI/CD pipelines to build, test and deploy changes. You are not expected to build CI/CD from scratch
- Contribute to discussions on integration, development and architecture for your assigned components
- Diagnosis and solve problems in development, testing and production environments, including performance and monitoring with tools such as Splunk or Elastic
- Take charge of your work from development to production, including monitoring and support
- Document technical designs, data flows, changes and support procedures

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- Repair security vulnerabilities and support application control assessments and data attestation
- Work with IT leadership, business stakeholders, entrepreneurs and partner teams to deliver solutions
- Apply AI and emerging tools where they add value to your work, such as improving development productivity and automation
- Build data pipelines and scripts to extract, transform, and validate data for fraud, AML, and finance applications.
- Analyze key data sets to support fraud detection, AML monitoring and reporting, and identify data quality issues.
- Support machine learning/AI models by preparing data sets, performing experiments and integrating model outputs into applications

Qualifications

Requirements

- 3+ years of experience in software engineering (with one or more of the following the RBC careers portal, Java, Python)
- 2+ years of integration experience, Work knowledge on integration components including SSO, security and messaging (Kafka or MQ)
- Well aware of API design and consumption: Experience API construction and consumption
- Understanding of CI/CD practices and experience working within existing pipelines. Building pipelines from scratch is not required
- Experience the development and deployment of cloud-native applications on AWS, Azure or GCP, with a focus on scalability, reliability and efficiency.
- Practical knowledge of cloud platforms, with preferred Azure. Experience with containers (Docker, Kubernetes) is a plus
- Ability to diagnose problems in development, testing and production, using surveillance tools such as Splunk or Elastic.
- Ability to document technical designs and data flows, and to work effectively with technical teams and business stakeholders
- Experience remediating security vulnerabilities and supporting application control assessments and data attestations. Famliarity with audit, risk, or regulatory control processes is nice to have
- Scripting skills for data extraction, transformation and validation, with SQL and experience working with large data sets.

Assets

- AI and LLM Development: Experience in building autonomous AI agent systems, with practical knowledge of LLM (transformers, tokenization, embarkations), rapid engineering, fine tuning, RAG and vector databases.
- AI frames and API design: Practical experience with frames such as LangChain, AutoGen or CrewAI, and API design experience with function call.
- Data Models and Pipelines: Experience in the orchestration of model management data and pipelines.
- Advanced Python: deep Python expertise for AI and ML work. Basic Python/scripting for data and automation remains a must-have

Pay and benefits

RBC teams aim to grow by working together, thinking ahead and giving dependable advice that helps clients and communities prosper. They support one another, develop their potential and strive for outcomes that benefit the communities they serve as well as the bank.

- A total compensation program with competitive pay, bonuses and flexible benefits, plus commissions and stock where applicable.
- Managers who coach employees and help them find opportunities to develop.
- Ability to make a difference and have a lasting impact.
- Join a collaborative team that works at a high standard and looks for new ways to improve.
- Opportunities to do challenging work

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Job Skills

Big Data Management, Cloud Computing, Database Development, Data Mining, Data Warehousing (DW), ETL Processing, Group Problem Resolution, Quality Management, Needs Analysis

RBC accepts applications until 11:59 p.m. on the day before the posted deadline.

Our Employment Opportunities

RBC works as One RBC and follows five shared values: putting clients first, integrity, collaboration, respect and excellence. As one of the world's largest and most successful banks, it sees inclusion and different perspectives as important to continued growth. RBC supports staff in doing their best work, working together, innovating and developing professionally. Its policies and programs foster respect, belonging and opportunities for everyone to create value for clients and communities.

Talent community

People who join RBC's talent community can receive new postings, career advice and recruitment event updates tailored to their interests.

RBC's careers portal shares information about career paths and how its teams contribute to client and community well-being.

RBC is accepting applications for an existing vacancy. Qualified applicants may hear from the recruitment team for a more detailed review of their résumé.

Search for requisition R0000191969 on the RBC careers portal.

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