Staff AI Security Developer

Requisition	R0000187891
Employer	Royal Bank of Canada
Canadian locations	Toronto (Ontario, Canada)
Primary address	16 YORK ST, TORONTO, ON M5J 0E6, Canada
Posted	November 17, 2026
Date in the description	September 15, 2026
Posted deadline	December 18, 2026
Last day to apply	December 17, 2026
Business area	TECHNOLOGY AND OPERATIONS
Employment status	Regular
Work schedule	Full time · 37.5 h per week
Pay type	Salaried

The position

As a global security developer, you design, build and integrate security infrastructure that protects RBC's growing AI ecosystem, covering hundreds of AI agents, MCP servers, LLM gateways and agent workflows across the bank.

You will deliver production-grade capabilities in AI Security Posture Management (AI SPM), Shadow AI Discovery, and AI Security Guardrails — providing comprehensive visibility into the enterprise AI footprint and enforcing security controls across the AI lifecycle. This hands-on engineering role focuses on building the security foundation through robust backend services: embedding security into CI/CD pipelines, developing APIs and integrations with AI platform gateways, and connecting security tooling to the broader Cyber ecosystem. You will ship production code, own service reliability on Kubernetes, partner with AI platform and DevOps teams, and directly shape how the bank secures its rapidly growing AI footprint — accelerating regulatory readiness and setting new standards for AI security at scale.

Responsibilities

- Has the availability, reliability and performance of security services on Kubernetes
- Design and build AI security products including AI Security Guardrails, AI SPM, and Shadow AI Discovery
- Build and maintain APIs, connectors and data pipelines that integrate with business gateways and the cyber ecosystem
- Integrate AI security tools into CI/CD deployment pipelines with automated security benchmarks and testing frameworks
- Building strong partnerships with AI, DevOps, IAM and Security Architecture platform teams

Qualifications

Requirements

- License (or equivalent) in computer science, software engineering, cybersecurity or related fields
- 6+ years of backend software engineering experience with strong Python level coding skill
- Experience building containerizzato services with Kubernetes or OpenShift
- Experience in designing and building REST API, data connectors and integration pipelines
- Experience in defining and implementing infrastructure and pipeline applications

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- Ability to provide robust and production-ready AI security solutions and platforms, to foster continuous improvement, to defend security and privacy by design, and to communicate effectively with technical and commercial stakeholders

Assets

- Experience with LLM orchestration frames (LangChain, LangGraph) and AI observation tool (Langfuse, LangSmith) or similar AI development batteries
- Experience with security scanning tools and SAST/DAST (Semgrep, Snyk, SonarQube), Vault/KMS or AI security assessment tools
- Stay up to date with new and evolving AI security threats and mechanisms for defending against those threats
- Experience with dual cloud or hybrid environments and modern observation batteries (Grafana, Prometheus, OpenTelemetry)

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.
- Capacity to make a difference and sustainable impact
- Join a collaborative team that works at a high standard and looks for new ways to improve.
- Flexible work/life balance options
- Opportunities to do challenging work
- Opportunities for progressively fulfilling greater responsibilities
- Access to a variety of job opportunities across business

Job Skills

Agentic AI, AI for Cybersecurity, AI Observability, API Integration, Application Security, Collaboration, Cybersecurity, Decision Making, DevOps, DevOps Engineering, IT Systems Integration, Python (Programming Language), Secure Deployment, Security Controls, Security Solutions, Software Development

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 R0000187891 on the RBC careers portal.

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