

GAJAPRIYAN VIGNESWARAN

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Education

Carleton University

Expected Graduation 2027

Honors B.C.S Computer Science - Cybersecurity Stream

3.90/4.0 GPA (A+)

Coursework: Object Oriented Programming, Data Structures and Algorithms, Web Applications, Systems Programming, Database Management Systems, Operating Systems, Computer Architecture, Discrete Mathematics, Linear Algebra

Work Experience

Royal Bank Of Canada

May 2025 – August 2025

Security DevOps Engineer Intern

Toronto, ON

- Designed and implemented a **Spring Boot** batch job to aggregate and classify **SCA vulnerability scans** across **50+ applications**, generating automated exemptions to prevent false-positive deployment flags in **Aqua**; leveraged **Redis caching**, integrated with **Kubernetes** for scalable execution, and monitored job performance with **Prometheus** and **Grafana**, reducing false deployment blocks by **85%** and accelerating vulnerability processing by **60%**.
- Developed a secure **GitHub Actions** workflow to automate **Azure Service Principal** secret rotation for 30+ applications, integrating **HashiCorp Vault** for secure secret storage and leveraging **OpenShift** to orchestrate pod restarts; maintained **ServiceNow Change Management** records to ensure compliance and traceability of all deployments, reducing manual credential rotation tickets by **90%** across multiple teams.
- Reduced node resource waste by **40%** by right-sizing pods in **OpenShift** through implementing **Vertical Pod Autoscalers (VPA)** and auditing CPU/memory requests using **kube-state-metrics** and **Prometheus** rules.

Royal Bank Of Canada

May 2024 – Dec 2025

Backend Engineer Intern

Toronto, ON

- Developed scalable **Spring Boot** compliance reporting **APIs** with **JPA**-based **data aggregation**, reducing manual report generation time by **40%** and enhancing regulatory adherence across **RBC Capital Markets**.
- Implemented **K6 performance testing** and **chaos engineering** workflows with **Gremlin** in **Jenkins** and **GitHub Actions** deployments, uncovering vulnerabilities and reducing **OCP** resource usage by **50%** for key applications.
- Engineered a **Spring Boot**-based **certificate directory** API that streamlined secure certificate lifecycle operations including retrieval, renewal, and revocation, enhancing system compliance visibility by **25%**.

Leadership

CU Blueprint

Feburary 2024 – Present

Engineering Product Manager

- Led the development and delivery of software solutions for nonprofits, managing a team of **10+** developers and designers
- Collaborated closely with **stakeholders** to understand technical requirements, translating them into **actionable project plans**, clear deliverables, and timelines to ensure successful execution.

Inertia Group (NPO Start-up)

June 2023 – Present

Co-Founder

- Organized tech workshops for **100+ students**, offering mentorship, hands-on learning experiences, and guidance on **scholarship opportunities** to support their academic and career growth.

Projects

6ixFlow | Next.js, FastAPI, Mapbox, PostgreSQL, Pandas, Random Forest

- Developed an AI-driven Traffic Hotspot platform using Toronto open data, scikit-learn, and geospatial visualization; engineered pipelines to aggregate multi-year vehicle, cyclist, and pedestrian counts, trained Random Forest models to forecast congestion by time and location, and built an interactive map UI for real-time urban mobility insights.

CourseCraft | NextJS, PlanetScale, NextAuth, OpenAPI, TailwindCSS

- An AI-driven platform that simplifies course creation by ingeniously generating comprehensive educational roadmaps from simple prompts. This innovative tool facilitates the construction of structured learning journeys, complete with video content and knowledge assessment, streamlining the educational process.

SpectraHunter Simulation | C, Multithreading, Dynamic Memory Allocation

- A program that emulates a networked communication system for ghost hunts. It dynamically simulates interconnected rooms where four hunters, equipped with devices, collect evidence. Replicating scenarios where encounters with ghosts heighten fear levels.

Technical Skills

Languages: Java, C++, C, C# Python, GO, JavaScript, MySQL, PHP, Ruby, Swift, TypeScript, Scheme, Perl

Technologies/Frameworks: Spring Boot, ReactJS, PostgreSQL, NextJS, Django, NodeJS, GraphQL, MongoDB, .NET

Developer Tools: AWS, Postman, PowerBI, Git, Azure, Docker, Jira, JUnit, Azure, OpenShift, Kubernetes