

GAJAPRIYAN VIGNESWARAN

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Education

Carleton University

Expected Graduation December 2027

Bachelor of Computer Science (B.C.S.), Honours, 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

Shopify

Incoming Winter 2027

Software Engineer Intern

Toronto, ON

- Incoming Software Engineer Intern focused on developing scalable backend services and full-stack product features.

SAP

September 2026 - December 2026

Software Engineer Intern

Vancouver, BC

- Built **TypeScript/React** analytics features using **Redux**, engineering query-state management and multidimensional filtering workflows to **reduce data retrieval latency by 25%**.
- Optimized HANA queries, resolving **15+ performance and correctness issues** in calculations, filtering and sorting

Morgan Stanley

May 2026 – August 2026

Software Engineer Intern

Montreal, QC

- Engineered end-to-end **Python ETL pipelines** for the Archival Status Report platform, restoring **150M+ SMS/MMS records** into **Snowflake** for enterprise legal and compliance reporting workflows.
- Built a **Streamlit** application powered by Snowflake Cortex, enabling **7+ teams** to query data using natural language.
- Built a reusable ETL **orchestration** and **validation** framework, accelerating onboarding by **2+ hours** per pipeline.

Carleton University

September 2025 – December 2025

Database Management Systems Teaching Assistant

Ottawa, ON

- Mentored **100+** students in **SQL** and **NoSQL** database concepts while providing technical leadership.

Royal Bank of Canada

May 2025 – August 2025

Software Engineer Intern

Toronto, ON

- Engineered a **Python GitHub Actions** workflow automating **Azure Service Principal** secret rotation and zero-downtime **Kubernetes** pod rollouts, eliminating **90%** of manual credential tickets across **50+ workloads**.
- Engineered a **Java Spring Boot** batch service processing SCA vulnerability data for **10+ applications**, leveraging **Redis** caching to reduce scan latency by **60%** and false deployment blocks by **85%**.
- Optimized **Kubernetes** resource requests across **15+ applications** using **Grafana** metrics, reducing waste by **40%**.

Royal Bank of Canada

May 2024 – Dec 2024

Software Engineer Intern

Toronto, ON

- Integrated **k6** load testing and Gremlin **chaos engineering** into **Jenkins/GitHub Actions**, automating post-deployment performance validation and workload right-sizing across **20 services** for production workloads.
- Implemented audit reporting endpoints for a **Java Spring Boot** management API, enabling automated certificate audits across **30+ services** and increasing compliance tracking by **25%**.
- Built a **Java Spring Boot** service exposing compliance data through REST APIs, reducing reporting by **40%**.

Projects

SetPiece | *Next.js, TypeScript, Node.js, Socket.IO, LiveKit, Supabase, Redis*

- Built a **real-time** debate platform supporting **100+ concurrent users**, using **Socket.IO**, **LiveKit**, and **Redis pub/sub** for distributed room and event orchestration.

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

- Built a traffic forecasting platform processing **5M+ records**, engineering **ETL pipelines** across multi-year traffic data and Random Forest models achieving **95% forecast accuracy**.

Technical Skills

Languages: Python, C, C++, C#, Java, SQL, Ruby, JavaScript, HTML/CSS

Libraries/Frameworks: React.js, Node.js, Express.js, Next.js, Django, Scikit-learn, Spring Boot, Flask

Databases: PostgreSQL, MongoDB, Snowflake, DynamoDB

Developer Tools: AWS (Lambda, API Gateway, ECS, EC2, Cognito, RDS, S3), Git, Docker, Postman, GCP, Microsoft Azure, Grafana, Kibana, Jenkins, Databricks