

SAMARTHYA GOYAL

Victoria, BC

 [Personal Website](#)  samgoyal0044@gmail.com  [LinkedIn](#)

Education

University Of Victoria

BSc. Computer Science

Victoria, BC

Work Experience

Quartech

May 2024 – December 2024

Software Developer

Victoria, BC

- Architected and implemented backend systems and REST APIs, enabling scalable conversational access to 10+ Azure Search indexes, significantly expanding the application's knowledge retrieval capabilities
- Improved overall application performance by optimizing data fetching and processing strategies, achieving nearly 2x speedup in message load time, 40% faster response generation and overall high app responsiveness
- Queried and analyzed Azure Kubernetes container logs to identify resource usage patterns, optimizing resource allocations in Helm configurations, resulting in a 15% reduction in overall cluster resource consumption
- Streamlined CI/CD pipeline using GitHub Actions and workflows to automate build, test, and deployment processes, ensuring smooth integration with Kubernetes workloads
- Authored detailed technical documentation for implemented features, including APIs, to ensure maintainability, facilitate team knowledge transfer, and support seamless onboarding of future contributors
- Automated the provisioning and management of Microsoft Azure Cosmos DB containers using Terraform, reducing manual deployment time by 50% and streamlining database management across multiple environments

D-Wave Systems Inc.

Jan 2024 – April 2024

Software Developer in Test

Burnaby, BC

- Developed automated tests for D-Wave's quantum computing cloud service using Pytest increasing test coverage by 30%
- Collaborated on implementing a test bed for D-Wave's hybrid solver service
- Restructured and optimized Jenkins automation suite to improve organization and reduce maintenance overhead saving months of team effort
- Actively participated in daily standups and sprint planning, prioritizing and delivering sprint tickets on time, contributing to a 20% improvement in sprint completion rates
- Authored and enhanced Groovy scripts for pipeline deployments to automate CI/CD processes within Jenkins

Jostle

May 2022 – April 2023

Junior Developer

Vancouver, BC

- Automated and developed 100+ test cases using Selenium, reducing cross-browser testing time by 60%, while maintaining multiple test automation suites with a 97% pass rate
- Collaborated with cross functional teams to designed and implement React frontend features integrating them with a Java Spring Boot backend via REST APIs for the enterprise product serving 5000+ users
- Migrated legacy GWT code to modern React enhancing UI performance by 20%
- Conducted load testing and real-time log analysis, proactively detecting performance anomalies and providing actionable reports, enabling a 30% reduction in time-to-diagnosis of critical issues
- Automated branch creation, Jenkins job setup, and test result aggregation in Google Sheets using GitLab and Jenkins APIs, reducing manual effort by 50%

Projects

Peer Sync

[peer-sync.com](#)

- Developed a peer-to-peer file-sharing web application using Next.js and Socket.IO enabling secure file transfers without relying on server storage.
- Utilized Vercel KV (Redis) for session management and Playwright for end-to-end testing
- Deployed production infrastructure using AWS EC2, Docker and Nginx reverse proxy achieving 99% uptime

Technical Skills

Languages: Python, Java, CUDA, C, JavaScript, C#, Typescript, Groovy, HTML, CSS

Databases: MySQL, PostgreSQL, MongoDB, Cosmos DB, Redis

Tools: Azure, AWS, Gitlab, Github, Helm, Postman, Jenkins, Grafana, Terraform, Jira, Docker, Playwright

Frameworks: React, Redux, Tailwind CSS, .NET, Next.js, Node.js, JUnit, PyTest, Selenium