Shrey Bhatt

✉ shreybhatt13@gmail.com in/shreybhatt13 ☁ shreybhatt.dev

SUMMARY

Seasoned Full-Stack Software Developer with **proven expertise in tackling complex problems, optimizing performance-critical enterprise systems through strategic caching, advanced query optimization**, and the refinement of robust B2B interfaces.

EXPERIENCE

Software Developer

Info-Tech Research Group   **April 2025 – Present, Toronto, ON**

· Dramatically **reduced application latency by up to 450% for core B2B interfaces** by overhauling performance bottlenecks, implementing multi-layer caching, lazy-loading, and rewriting inefficient ActiveRecord & SQL queries.
· Played a pivotal role in **integrating core company systems with third-party HR platforms** by developing key components for a streamlined data migration process, enhancing both product adaptability and enterprise interoperability.
· Played a key role in a strategic initiative that **cut data analysis costs by 95%, migrating legacy AWS Glue jobs** to an in-house Ruby platform to centralize reporting and significantly boost operational efficiency.
· **Spearheaded the implementation of a scalable internationalization (I18n) solution** by redesigning the translation flow to handle interactive content, enabling seamless multilingual support across custom rich text editors attributes without compromising maintainability.
· Deployed a robust microservices-based system for the seamless migration and cloning of complex surveys, **designing custom serialization & deserialization algorithms** from scratch to ensure high-fidelity **interoperability across 40+ language representations**.

Software Developer (Co-op) – Summer & Winter

Info-Tech Research Group   **May 2024 – April 2025, Toronto, ON**

· Contributed to the **full-stack development of AI-powered comment analysis features & B2B Survey Interfaces** using Ruby on Rails and cloud services (AWS Glue, Azure), collaborating within a cross-functional team to deliver scalable solutions aligned with the MVC architecture.
· Led the early development of a multilingual translation framework, **implementing internationalization (i18n) foundations that now support over 80% of platform-wide services.**
· Designed a tagging architecture from the ground up, integrating the system with existing microservices to enhance modularity and **improve code readability across approximately 30% of the core survey system.**

EDUCATION

Computer Programming & Analysis

Seneca Polytechnic · Toronto, ON · 2026 · 4.0
· President of the **Software Developer's Club** & **4 time recipient** of the President's Honour List
· Won Canada's largest AI hackakthon (GenAI Genesis) 2 years in a row & Toronto's largest summer hackathon (HackThe6ix)

PROJECTS

InkSight (Winner)

GenAI Genesis Hackathon · March 2025 – March 2025
· Developed a **proprietary hardware-software platform** integrating advanced OCR and machine learning to digitize and **vectorize handwritten notebooks in under 5 minutes**, enabling seamless storage and user interaction.
· **Accelerated system performance by 40%** through a real-time integration strategy using WebSockets and a **Retrieval-Augmented Generation (RAG) pipeline, leveraging Qdrant and Google technologies** for optimized hardware communication.

LEADERSHIP

Director of Technology

Canadian University Software Engineering Conference · May 2025 – Present
· Architected the end-to-end platform for the CUSEC 2026 website, delivering a scalable, high-performance solution on schedule and integrating a mission-critical **Role-Based Access Control (RBAC) system** with Auth0 to secure administrative operations and enable **real-time event management for 1000+ users/attendees**.
· Streamlined the development lifecycle by **implementing a modern CI/CD pipeline**, significantly **reducing infrastructure costs by over $600 annually** while focusing on scalability and improving deployment reliability.

SKILLS

Languages: C, C#, C++, Python, MySQL, JavaScript, TypeScript, HTML5, CSS, Bash, COBOL, Java, Ruby

Frameworks / Libraries: NumPy, Pandas, Matplotlib, Node.js, Bootstrap, Tailwind CSS, TensorFlow, OpenCV, React.js, Rails

Platforms / Tools: Git/GitHub, Linux, Jira, CI/CD, Postman, Capybara, Rspec, Docker, Kubernetes, AWS, PostgreSQL, MongoDB, Oracle SQL