

Harsh Gandhi

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Education

University of Waterloo - *Candidate for BAsC in Computer Engineering*

2020 - 2025

- **Relevant Courses:** Real time operating System in C, Object-oriented & Data structures and algorithms
- **Awards:** President's Scholarship of Distinction, 2x Outstanding Intern, Top 10 Code Contributor (RBC)

Skills

Technical Languages: C/C++, Python, Java, JavaScript/TypeScript, HTML/CSS, SQL

Libraries/Frameworks: Node.js, React, Express.js, GraphQL, Spring Boot, Material UI, Flask, Jest

Tools: Tableau, Excel, MongoDB, MySQL, Postman, Git, PostgreSQL, Docker, SDLC, Jira, Agile Methodologies

Experience

Software Developer Intern

May 2023 - Aug 2023

Super.com

Toronto, ON

- Reduced cost on transactions made on Super e-commerce shop by eliminating third-party handling of refund payments, saving Super **1%** on refund transaction
- Leveraged Redis caching for retrieving itineraries, based on location to avoid re-fetching AI-generated text, **decreasing user wait time by 5%**
- Added rate limiting to Flask API endpoints and validation-based registration to an internal web application tool to prevent servers from cyber-attacks and resource exhaustion using Flask-limiter and decorators
- Increased unit testing of a complex code base by **15%** by mocking function calls using Jest testing framework
- Migrated experiment framework to Amplitude by successfully installing the Amplitude SDK in Next.js

Software Developer Intern

Sept 2022 - Dec 2022

SS&C Technologies

Toronto, ON

- Developed a Marketplace to sell Securities by architecting database structure and **RESTful APIs** in Java
- Integrated Kafka topics to asynchronously update databases and enabled idempotency to avoid duplicate messages, decreasing response time for all endpoints
- Constructed GraphQL endpoints on top of the service layer to help clients fetch and query relevant and specific data, reducing client-side caching by **10%**
- Optimized JPA queries by avoiding Hibernate N+1 problem, saving fetch time on average by **30 seconds**

Software Developer Intern

Jan 2022 - Apr 2022

Royal Bank Of Canada

Toronto, ON

- Innovated the AIOps micro-frontend in React and integrated ML algorithms to expedite resolution of technical incidents, savings RBC an estimated of **\$2.73 million** by 2024
- Cut client-side loading by reducing the size of data for each endpoint with pagination in a Flask Micro Back-end
- Released an MVP a week before the release date, by collaborating with multiple teams of developers

Business Intelligence SQL Developer Intern

May 2021 - Aug 2021

Kenna Technologies Solutions Inc

Mississauga, ON

- Implemented automated SQL queries to filter redundant data, decreasing run-time by **5%** for all clients
- Strategically created queries in Stored Procedure to effectively aggregate tables for data visualization reports

Projects

Multi-Processed Image Converter - Multiprocessing, cURL, Distributed Systems

- Concurrently fetching and merging images from servers into a single PNG using safe process forking

CrowdBuy Web Application - Node.js, MongoDB, Express.js

- Built and designed a Marketplace using the MVC pattern, to modularize business logic, data, and interface