# Aryan Patel

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## EDUCATION

**University of Toronto**
Honours Bachelor of Science, Computer Science Co-op                                     cGPA: **3.70** / 4.0
**Awards:** Dean's List of Academic Excellence (2019 - 2023)
**Relevant Courses:** Software Design, Analysis of Data Structures, Computer Network and Security, Systems Programming

## TECHNICAL SKILLS

**Languages:** Ruby, Java, Python, JavaScript, TypeScript, C, SQL, HTML, CSS, Bash
**Framework and Tools:** Ruby on Rails, Sidekiq, Spring Boot, React, Angular, Kafka, MongoDB, Firebase, Git, Jira, DataDog
**Concepts:** APIs (REST, GraphQL), Agile Methodologies, Unit & Integration Testing, CI/CD (Jenkins)

## EXPERIENCES

**Shopify |** Software Engineering Intern                                     May 2022 – December 2022
- Worked within the Security team to create custom scanners responsible for validating security threats, such as XSS, Hmac, and Clickjacking, for Shopify apps using Ruby on Rails, GraphQL, and Sidekiq
- Spearheaded the development of invalidating leaked tokens across Shopify's network using webhooks issued by GitHub, leading to the discovery of **5000+** leaked active tokens in public GitHub repositories
- Designed and implemented a custom domain validation scanner that notifies Shopify app reviewers when an app's domain is expired or about to expire
- Drastically decreased development setup time by migrating local development into a high-performance virtual machine

**GitHub |** Software Engineering Intern                                     Sept 2021 – Dec 2021
- Pioneered the development of a CLI tool in Node.js that enables **thousands** of customers to prepare repository migrations to GitHub, and its success resulted in its release as an open-source project on GitHub
- Optimized version control fetching metrics by **80%** using concurrency and multithreaded API requests
- Built a custom mapper to export critical metrics into CSVs, enabling customers to scope the cost of migration efforts
- Utilized **ETL** and **Fan-Out** processes to migrate GitHub Enterprise repositories to GitHub using Ruby on Rails, Twirp, and Sidekiq

**The Royal Bank of Canada |** Cloud Software Developer Intern                                     May 2021 – Aug 2021
- Contributed to a Real-Time Payment application with Java, saving RBC **$2 million** from Interac annually
- Increased code coverage by **30%** by reworking regression tests, preventing redundant API setup calls to MongoDB
- Led the migration of AWS S3 to Vault for **10** applications in QA, development, and production environments, resulting in **40%** faster build time and eliminating reoccurring credential issues
- Developed and demoed the foundation of new routing services for Interac e-transfer with Spring Boot and Apache Camel, used by **millions** of concurrent users

**University of Toronto |** Teaching Assistant                                     Sept 2021 – Present (recurring)
- **Courses:** Software Design, Design and Analysis of Data Structures, & Introduction to Software Engineering
- Independently led weekly software design labs and tutorials to **30+** upper-year computer science students
- Worked closely with the course instructor to plan Object-oriented programming, Agile Scrum, SDLC, and SOLID design concepts

## PROJECTS

**DrawHub** (GitHub)                                     React, NestJS, WebSockets, GraphQL, MongoDB, Redis, Auth0, AWS S3
- A collaborative whiteboard platform that operates in real-time and includes customizable visibility settings, email notifications, and the ability to export canvases

**UImpactify** (GitHub)                                     MongoDB, Express.js, Angular, Node.js, Socket.io
- An online learning and crowdfunding platform to provide accessible specialized education in the social purpose sector
- Spearheaded the design and development of user-based access control, creating courses & assessments, uploading student submissions, and user retention surveys