

# Aryan Patel

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## EDUCATION

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### University of Toronto

Honours Bachelor of Science, Computer Science & Statistics Co-op

**Awards:** Dean's List of Academic Excellence (2019 - 2021)

Sept 2019 – Apr 2023

cGPA: **3.75** / 4.0

## TECHNICAL SKILLS

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**Languages:** Java, Python, JavaScript, TypeScript, Ruby, C, SQL, HTML, CSS

**Framework and Tools:** Spring Boot, Angular, Git, Ruby on Rails, NoSQL (MongoDB, Firebase), Jira, Jenkins, Kafka, Apache Camel

**Concepts:** REST APIs, Agile Methodologies, GraphQL, Unit & Integration Testing, CI/CD

## EXPERIENCES

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### Shopify | Software Engineering Intern

May 2022 – Aug 2022

- Creating custom scanners validating security threats (XSS, Hmac, Clickjacking) using Ruby on Rails, GraphQL, and Sidekiq
- Spearheading the development of invalidating leaked tokens across Shopify's network through GitHub
- Extending software infrastructure using **Google Cloud Platform** and **Kubernetes**
- Increase development setup time by **40%** 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 allowing **1000s** of customers prepare repository migrations to 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.com 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** dollars 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 — Software Design & Algorithms

Sept 2021 – Aug 2022

- Independently led weekly software design labs and tutorials to **100** upper year computer science students
- Assisted students with android studios infrastructure setup and mentorship throughout their assignments and labs
- Closely collaborated with assistants and instructors to plan out Object-oriented programming, Agile Scrum, SDLC, and SOLID design concepts

## PROJECTS

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### UImpactify ([Website](#), [GitHub](#))

MongoDB / Express.js / Angular / Node.js / Jira

- 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

### Mock Command-Line Interface ([GitHub](#))

Java / JUnit / Object Oriented Programming

- Built an isolated file system with an object-orientated representation of core shell commands, in an Agile Scrum of 3
- Utilized singleton, and interface segregation software design patterns to minimize redundant code and improve extensibility