

Aryan Gandevia

aagandev@uwaterloo.ca • linkedin.com/in/aryangandevia • github.com/aryan-gandevia • devpost.com/aryan-gandevia

EDUCATION

University of Waterloo

2022 – 2026

Bachelor of Computer Science, Honours (Co-op)

GPA: 3.9 / 4.0

- **Relevant Coursework:** Algorithm Design and Data Abstraction (Advanced), Object-Oriented Software Development, Linear Algebra I and II, Calculus I - III, Probability, Proofs

SKILLS

Languages C++, Python, Go, Java, C, Ruby, SQL, Swift, TypeScript, JavaScript, HTML/CSS
Frameworks AWS, Django, Flask, Node, Temporal, gRPC, Rails, Next.js, Spring, React
Tools Git, Docker, Grafana, HDFS, Postman, Sourcegraph, Google Firebase, MySQL, Xcode, Vercel

EXPERIENCE

Dropbox | Software Engineering Intern

May 2024 – August 2024

Go, gRPC, HDFS, Grafana

Telemetry Team | San Francisco, CA

- Built a dynamic banning system, using Go and Python, for Dropbox's internal metrics engine that bans expensive and undesirable queries, reducing resource contention in the application's main bottleneck by **45%**
- Implemented synchronous tracking for failing queries over all production servers using gRPC and leveraging HDFS for persistence across all availability zones, improving accuracy and aggressiveness of bans by **5x**
- Constructed real-time metrics reporting and detailed reviews of banned queries for engineering teams to view, which helped improve internal services' time-sensitive alerting while also safeguarding resource usage for metrics querying

Wealthsimple | Software Engineering Intern

January 2024 – April 2024

Ruby on Rails, AWS (S3, Redshift), Temporal, SQL

Post Trade Management Team | Toronto, ON

- Engineered and optimized a scalable, distributed shareholder registry pipeline which services **~3 million daily active users** and **2000+ companies** traded on Wealthsimple, using Ruby on Rails, Temporal, and AWS
- Leveraged Temporal to introduce parallelism into the pipeline's daily data extraction processes, improving processing time from **2 hours to 20 minutes**
- Created a service to periodically synchronize user information between Redshift and Oracle databases, reducing inaccurate data reporting and engineer toil

The Ontario Institute for Cancer Research | Full Stack Developer Intern

May 2023 – August 2023

Java, MySQL, Hibernate, Spring, Maven, TypeScript, Docker

Genome Informatics Team | Toronto, ON

- Developed an efficient data loading algorithm for the company's cancer research tracking application, leading to a **2x speedup** in upload operations compared to previous implementation
- Reduced technical debt by creating a library of reusable classes and functions, **eliminating ~1500 redundant lines of code**
- Led the backend development for a key project on the roadmap by implementing large database migrations with SQL and creating new REST API endpoints with Java and Spring

PROJECTS

FitQuick (github.com/aryan-gandevia/FitQuick-iOS)

August 2023 – present

Swift, Google Firebase, Xcode

- Built an iOS app that tracks users' weightlifting statistics and enables them to see how they compare to the rest of the world
- Utilized concurrency in the backend with Google Firestore and Swift to allow API requests and data processing jobs to run simultaneously, allowing for a smooth user experience with low latency
- Leveraged SwiftUI libraries to create a data visualization that compares users' strength data to the rest of the world

AWARDS AND DISTINCTIONS

- **2nd place** | Hack the North Facebook API Category awarded by Meta in 2020
- **Top 10% Distinction** | Euclid Mathematics Competition awarded by the University of Waterloo in 2021, 2022
- **Top 15% Distinction** | Canadian Senior Mathematics Competition awarded by the University of Waterloo in 2021
- **President's Scholarship of Distinction** awarded by the University of Waterloo in 2022