


# GRACE GAO

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## EDUCATION

**University of Waterloo | Bachelor of Software Engineering; Combinatorics & Optimization Minor** 2020 – 2025

cGPA: 3.9/4.0

Alumni at Microsoft Scholarship in Engineering, Grace Hopper Scholar 2021, President Scholarship of Distinction

## EXPERIENCE

**Bloomberg | Software Engineering Intern**

New York, NY ■ 05/2023 – Present

- Drove research, design and implementation of a **Kafka Connect source connector (Kotlin)**, a fault-tolerant **data pipeline** enabling distributed streaming of **5k+ messages/second** from **RabbitMQ** to **Apache Kafka**
- Built, tested and **deployed to production** the end-to-end connector integration, consisting of internal **service endpoints (C++)**, a **web interface (Angular.js)** and the **Bloomberg Terminal (TypeScript)**

**Faire | Security Backend Engineering Intern**

Toronto, ON ■ 09/2022 – 12/2022

- Led the design and implementation of a **user-facing security portal** featuring session management and event logs (**Kotlin, Hibernate, TypeScript, React.js, Figma**); worked with engineering, product, design, and legal teams to ensure the successful **launch to 600k+ users**
- Performed data-driven investigations to resolve **30+** incident reports on the **Product Security Team**, leveraging **Kotlin, Snowflake, Datadog, AWS, Mode** to enforce **OWASP** best practices
- Authored the engineering document detailing implementation decisions around **API design** and possible risks for the planned integration of **Okta SSO** to authenticate **1.5k+ employees** in the company intranet

**Faire | Frontend Engineering Intern**

Waterloo, ON ■ 01/2022 – 04/2022

- Created and tested **15+ core components** for the product launches of *Insider* and *Open with Faire* using **React.js, TypeScript, Jest, Cypress**; seen and used by **10k+ European retailers**
- Initiated an optimized **developer workflow** in the company's **largest frontend repository** by introducing **auto-rebasing** pull requests (**GitHub Actions, Git, Bash, TypeScript**); successfully used **130+ times**

**TD Bank | Software Engineering Intern**

Remote ■ 05/2021 – 08/2021

- Implemented the complete technical prototype of a cross-platform mobile application for small business banking (**Dart, Flutter, Firebase**); presented to the leadership team for **patent review**

## SKILLS

**Languages** | Kotlin, TypeScript, C/C++, Python, Java, SQL, Bash

**Spoken** | English, French, Chinese

**Tools & Technologies** | Git, Docker, React.js, Apache Kafka, RabbitMQ, Android, Node.js, AWS, Figma

## LEADERSHIP

**Hack the North | Organizer**

03/2021 – 10/2022

- **Design (2021)**: Created the visual brand for the **world's biggest collegiate hackathon** for **3k+ hackers**
- **Logistics (2022)**: Executed a 6-month roadmap to lead **150 in-person mentors** for **1k+ hackers**

**Spotify x SET.Hacks() Event Website | Project Lead**

07/2021 – 08/2021

- Led a team of 3 designers and 2 developers to design (**Figma**), implement (**Next.js, Typescript**) and deploy (**Vercel**) an original **Spotify-sponsored** event website  [SET-Hacks-Dev/set-hacks](#) to **1.5k+ site visitors**