

# GRACE GAO

 gracewgao.me

 grace.gao2@uwaterloo.ca

 gracewgao  gracewgao

## EDUCATION

**University of Waterloo | Bachelor of Software Engineering; Combinatorics Minor**

2020 – 2025

cGPA: 3.9/4.0; Alumni at Microsoft Scholarship, Grace Hopper Scholar, President Scholarship of Distinction  
Study abroad semester @ Charles III University of Madrid

## EXPERIENCE

**Figma | Software Engineering Intern**

San Francisco, CA ■ 05/2024 – Present

- Implemented and deployed a company-wide security system to scan **1.5k+ laptops** for sensitive data and secrets stored locally (**Go, Python, SQL, AWS, Osquery, Trufflehog**); uncovered **21k+ cases** and reduced local **data security risk by 55%** by integrating a Slack alert and tool for users to delete reported files
- Piloted a secure, scalable workflow to fetch, **sign and deploy external Github packages** in internal CI/CD, leveraging **Terraform, Bash scripts and AWS** to support **endpoint security** requirements

**Datadog | Software Engineering Intern**

New York, NY ■ 01/2024 – 04/2024

- Architected and launched an **ETL data pipeline** to identify and report billing discrepancies of up to **300k+ dollars/month**, ingested from **30+ historical datasets** using **Scala, Python, Spark, Jupyter, Luigi, AWS**
- Implemented efficient **Spark jobs** to calculate projected revenue impact from billing changes, resulting in a **30x reduction** from previous pipeline execution time; presented **Metabase** reports and visualizations to PMs

**Bloomberg | Software Engineering Intern**

New York, NY ■ 05/2023 – 08/2023

- Drove research, design and implementation of a **Kafka Connect** source connector (**Kotlin**), a fault-tolerant application enabling distributed streaming of **5k+ messages/second** from **RabbitMQ** to **Apache Kafka**
- Built, tested and **deployed to production** the end-to-end integration consisting of internal **service endpoints (C++)**, a **web interface (Angular.js)** and the **Bloomberg Terminal (TypeScript)**; presented to **2k+ engineers**

**Faire | Software Engineering Intern**

Toronto, ON ■ 09/2022 – 12/2022

- Led the design and end-to-end implementation of a **user-facing security portal** featuring session management and event logs (**Kotlin, Hibernate, TypeScript, React.js, Figma**); coordinated with engineering, product, design, and legal teams to ensure the successful **launch to 600k+ users**
- Performed data-driven investigations using **Snowflake, Datadog, AWS, Mode** to resolve **30+ security issues**

**Faire | Software Engineering Intern**

Waterloo, ON ■ 01/2022 – 04/2022

- Created **15+ core components** and collaborated cross-functionally for the **product launches** of *Insider* and *Open with Faire* using **React.js, TypeScript, Jest, Cypress**; used by **10k+ European retailers**
- Initiated an optimized **auto-rebase workflow** in the largest frontend repository; actively used **50+ times/week**

**Hack the North | Hackathon Organizer**

Waterloo, ON ■ 03/2021 – 10/2022

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

## SKILLS

**Languages** | Go, Kotlin, Scala, Python, TypeScript, C++, Java, SQL

**Spoken** | English, French, Mandarin

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