GRACE GAO

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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 - 09/2024

- Designed, implemented and shipped a company-wide security system to scan 1.5k+ laptops for sensitive data (Go, AWS, SQL, Osquery, Trufflehog); uncovered 700+ secrets and reduced local data security risk by 55% by alerting users through Slackbot (Python, Panther) and defining new guidelines for best practices
- Built a self-serve process (Terraform, Bash) for engineers to create service accounts (Opal, Okta, Google Groups) and request just-in-time access without manual IT setup; designed a secure passwordless authentication flow for seamless multi-user experience, adopted by 10+ accounts

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 **0**5/2023 - 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

- Built and shipped 15+ core components 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 Github workflow in the largest frontend repository; 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