

# Ingrid Crant

 ingridcrant

 ingridcrant.github.io

 ingrid.crant@uwaterloo.ca

 ingridcrant

## Technical Skills

---

**Languages** Python · Typescript · Go · C++ · C · HTML/CSS · Java · Swift/iOS

**Frameworks/Other** React · NodeJS · Jenkins · Docker · GraphQL · Flask · SQL · AWS · Git · Bash

## Education

---

### University of Waterloo

3.7 GPA

BACHELOR OF COMPUTER SCIENCE

Sept. 2021 - Apr. 2026

**Involvement:** Math Orientation Lead, Women in Computer Science, Computer Science Club, Hack the North, Chamber Choir

## Experience

---

### Bloomberg

May. 2023 - Current

SOFTWARE ENGINEERING CO-OP

New York, NY

- Created an internal service using **Next.js**, **React**, to secure admin access to **MQ** interactions for **1000+** clients
- Integrated **authentication** and **authorization** to the platform with tools such as **SSO**, **OAuth2**, **Java Spring**, to restrict access to users with proper permissions
- Built a UI using **React** and **Cookie Tracking** to manage, replay, and push queue messages that can be re-traced to the user

### Uber

May. 2022 - Aug. 2022

SOFTWARE ENGINEERING INTERN

San Francisco, CA

- Led and developed a cross-team initiative to preemptively analyze **6000+** item menus, shipping a **Go** API identifying **300+** clients with item-specific regional alcohol compliance issues prior to publishing.
- Owned front-end augmentation of a client-facing platform using **React**, **Typescript**, alerting potential checkout errors and redirecting to the issue source
- Wrote a script in **Python** to periodically query **300,000+** menus using **SQL** to diagnose active restaurants not following alcohol compliance laws and alert them through email.
- Reduced a customer-facing alcohol compliance checkout error by **30%** and preventing **\$10,000+** worth of abandoned carts.

### University of Waterloo Computer Science Club

Sep. 2022 - Nov. 2022

PROJECT PROGRAM MENTOR

Waterloo, ON

- Mentored **3+** groups of first-year students in Software Engineering and guided them in developing their first coding projects.
- Organized and led workshops for **50+** members introducing industry-popular languages and frameworks.

## Projects

---

### WhatAmIWatching

Nov. 2021 - Dec. 2021

REACT/GRAPHQL/AWS APPSYNC

- A **full-stack** platform which tracks and stores users' watched and to-watch movies and generates recommendations.
- Built a **Recommendation Engine** using **Python**, **NumPy**, **Pandas** with a content-based similarity filtering approach
- Implemented a **GraphQL API** which draws users' movie information from a **DynamoDB** database using **AWS** AppSync with User Authentication from AWS Cognito.

### Prose

Jul. 2022 - Aug. 2022

MONGODB/EXPRESS/REACT/NODEJS

- A **MERN** web application allowing users to store, maintain, and share their quotes and poetry.
- Wrote a **REST API** in **NodeJS** supporting **CRUD** operations on user-specific quotes maintained in a **MongoDB** database
- Implemented user login, registration, and authentication using **Express.js** and **Passport.js**

## Awards

---

### J. G. Kalbfleisch National Scholarship

- One of 10 recipients of a University of Waterloo Mathematics National Scholarship totaling \$14,000.
- Awarded due to distinguished academic performance, math/programming contest results, and extracurriculars.

### American Invitational Mathematics Examination (AIME) Qualifier

- Qualified by placing in the top 5% of 17,000 students on the American Mathematics Competition