Ingrid Crant

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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 *3.9 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** drawing user-specific 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**

No Fluff Recipe *May. 2021 - Jun. 2021*
REACT/PYTHON/FLASK/BEAUTIFUL SOUP

- Wrote a Chrome extension that scans recipe websites and simplifies it to only the recipe card.
- Created a **Flask REST API** that scrapes 100+ popular cooking websites using **Beautiful Soup** and renders only the recipe card.

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