Jessica Goldrin

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SKILLS

Programming: C++, Go, Python, C, Kotlin, JavaScript, SCSS, R
Technologies: Apache Kafka, AWS, REST APIs, Kubernetes, Git, Linux, React, Docker, Figma, Pandas, JavaFX

EDUCATION

University of Waterloo   Sep 2020 - Aug 2025

Computer Science, Bachelor of Computer Science - BCS.

Relevant courses: Object-Oriented Programming, Algorithms, Data Structures, Data Management, Operating Systems, Sequential Programs, Computer Architecture

Certifications: AWS Certified Cloud Practitioner (CLF-C01)

EXPERIENCE

Arctic Wolf Networks   Jan 2024 - Apr 2024

Software Developer Intern

- Addressed scalability concerns by designing and implementing a solution which transitioned from creating individual Kafka consumers per topic to a single Kafka consumer dynamically listening for new topics using Go.
- Successfully migrated a vital Go repository from AWS SDK V1 to V2. Changed 1000+ lines of code. Refactored code that used V1-specific tools absent in V2. Rewrote 25+ unit/integration tests.
- Resolved system crashes by ensuring Kafka offsets are not committed in case of failed workflow initiation in Go. Implemented robust error handling for graceful program termination and validated the solution through unit testing, replicating error conditions.

1Password   Sep 2022 - Dec 2022

Android Developer Intern

- Implemented a comprehensive UI redesign in Kotlin, adhering to Figma specifications to elevate user experience for 5 million+ users. Revamped key UI components such as titles/headers/icons, resulting in a polished and engaging interface.
- Enhanced efficiency and performance in Kotlin by refactoring how user-inputed data was handled, specifically addressing list additions. Eliminated redundant operations by removing the reinsertion of old list items upon each addition, and instead implemented a data structure to which new data could be successfully added.
- Implemented highly requested drag and drop functionality in Kotlin, resulting in an increase in user engagement and satisfaction.
- Transformed UI to facilitate smoother navigation between dialogs and to correct popup flow in Kotlin.

Rogers Communications   Jan 2022 - Apr 2022

Android Developer Intern | Kotlin

- Improved functionality and cosmetic appearance of mobile radio and news apps.
- Located and removed faulty files to make weather icons across apps consistent.
- Resolved crash that occurred when user tried to share video with contacts.
- Investigated why feed did not load on first opening of some apps.

PROJECTS

ATM | C++, https://github.com/jessica-goldrin/ATM

- Developed an ATM program in C++ which allowed users to create accounts, log in securely, deposit, withdraw, and check balances.
- Implemented menu-driven interfaces and account management functionalities to simulate banking operations.

Unicorn Ubers | AWS

- Deployed and hosted dynamic and serverless web application which enabled users to request unicorn uber rides.
- Developed a backend process which handled unicorn dispatching using Lambda, and DynamoDB.
- Built and deployed a publicly-accessible RESTful API using API Gateway and Lambda.