



Shaishav Patel

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EDUCATION

University of Waterloo

BCS Candidate, Honours Computer Science Co-op

(Expected) Apr. 2024

GPA: 3.7/4.0

Relevant Coursework: Algorithms and Data Structures, Operating Systems, Object-Oriented Programming, Algorithm Design and Data Abstraction, Designing Functional Programs

EXPERIENCE

Coinbase

Software Engineering Intern

San Francisco, CA

May 2022 – Sep. 2022

- Setup **gRPC** endpoints, and utilized Go to implement various elements of the error handling & database layers in Social Graph Service which handles more than **100k requests/week** for the social feed in Coinbase Wallet
- Used **Go** to migrate profile follows endpoint in Wallet API to a new client, serving **12,000+** monthly active users
- Implemented database calls by writing Gremlin queries for **AWS Neptune** Graph Database to achieve **204ms** latency

Royal Bank of Canada

Software Developer Intern

Toronto, ON

Jan. 2022 – Apr. 2022

- Created a **Java microservice** using Apache Camel to process up to **500 transactions/second** by validating, transforming and routing retail e-Transfer transactions to help downstream teams detect fraudulent activity
- Built a mapper library with **97%** unit test coverage to facilitate processing of transactions by 5 downstream systems
- Owned migration of 3 legacy Java microservices to a new app code and integrated them with new CI/CD pipelines

Royal Bank of Canada

Software Developer Intern

Toronto, ON

May 2021 – Aug. 2021

- Utilized **Spring Boot** to add features and resolve bugs in a Java microservice for mapping numerous transaction types, used by 3 downstream teams to process over **\$1 million** in e-Transfer transactions daily
- Built microservice to validate transactions and generate e-Transfer account statements for **100+** enterprise clients
- Leveraged **Apigee** to deploy a REST API proxy with OAuth 2 and expose microservice to internal API consumers

Imagine Communications

Automation Developer Intern

Waterloo, ON

May 2020 – Aug. 2020

- Developed **Python** scripts for end-to-end testing of REST APIs to reduce regression testing time by over 80%
- Created and **automated 150+** tests to increase test coverage of smoke & regression test suite

TECHNICAL SKILLS

Languages & Markup	Python, Java, Go, C/C++, gRPC, JavaScript, Gremlin, Bash, HTML/CSS
Technologies/Frameworks	Spring Boot, Flask, Apache Camel, Thymeleaf, React
Developer Tools	Git, Jenkins, JUnit, AWS, PCF, UrbanCode Deploy

PROJECTS

Inventory Management System

- Created a **Flask** web application to add, remove, edit and monitor inventory of athletics clothing
- Used **AWS Elastic Beanstalk** and **AWS CodePipeline** to implement a basic **CI/CD pipeline** via GitHub Actions

CourseMatch

- Built online platform with **Python** and **React** to connect remote learning students in the same courses
- Generated unique tokens through **Firebase** to verify students and only allow access to channels for their enrolled courses

EXTRACURRICULAR

Problem Lab Pitch (1st Place)

April 2020

- Team received **\$4000** grant to research an ASL-to-text interpretation device for Deaf and Hard of Hearing individuals