

SOHAM SHAH

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EDUCATION

University of Waterloo

Bachelor of Computer Science - Specialization in Software Engineering, Minor in Economics

Relevant Coursework: Data Structures & Algorithms (C), Object Oriented Programming (C++), Databases (SQL)

Waterloo, ON

Sept 2020 – Apr 2025

cGPA: 85%

TECHNICAL SKILLS

Languages: Python, Java, C/C++, Kotlin, Go, TypeScript, JavaScript, SQL, R, GraphQL, HTML, CSS

Frameworks/Libraries: React, Ruby on Rails, Node, Express, Flask, Vue.js, React Native, Jest, Storybook

Tools/Technologies: AWS, MySQL, PostgreSQL, MongoDB, Docker, Kubernetes, Terraform, Linux, Git, Github

EXPERIENCE

Splunk

Software Engineering Intern

Sept 2024 – Dec 2024

San Jose, CA (Remote)

- Building automation tools using **Go** & **Kubernetes** to upgrade and maintain a 5000+ cloud stack fleet with zero downtime

Amazon

Software Development Engineer Intern

May 2024 – Aug 2024

Vancouver, BC

- Developed an error visualization tool for stuck transactions using **React**, cutting root cause analysis times from 6hrs to 10mins
- Created a categorization engine in **Java** to consolidate related stuck transactions into unified error groups using exception logs
- Configured **DynamoDB** table to store stuck transactions with a local secondary index (LSI), optimizing query performance by 15% and a time to live (TTL) attribute, projected to yield yearly cost savings of \$1,000+

Wealthsimple (Crypto)

Software Developer Intern

Jan 2024 – April 2024

Toronto, ON

- Engineered a new web interface using **Typescript** and **GraphQL** in 4 weeks enabling 3 million clients to buy and sell 60+ crypto
- Designed a dynamic carousel on the Discover page on mobile app using **React** and **Ruby on Rails**, showcasing top daily crypto gainers and losers, expected to increase crypto trading volume by 8%
- Reduced customer support calls by 10% by adding logic to prevent ineligible clients from entering the crypto transfer UI flow

CPP Investment Board

Software Engineer Intern

Sept 2023 – Dec 2023

Toronto, ON

- Built a robust smoke test framework with **Airflow DAG's**, cutting production failure rates by 17% and eliminating 4 hours of manual reconciliation efforts per deployment, improving overall system reliability
- Optimized **Moody's RiskFrontier** integration using concurrency to cut import time of 100,000+ records from 2 hours to 20 mins

Wealthsimple

Software Developer Intern

May 2023 – Aug 2023

Toronto, ON

- Integrated a dynamic application security testing (**DAST**) tool into production environment using **ECS** and **CloudWatch** to run nightly authenticated vulnerability scans on digital assets, expanding attack surface test coverage by 50%
- Utilized **LLM's** to automatically generate attack narratives for vulnerabilities, enabling more comprehensive threat modeling

Oliver Wyman

Software Engineer Intern

May 2022 – Aug 2022

Toronto, ON

- Developed functionality for life insurers to auto generate financial reporting documentation by implementing a stack-based architecture in **C#**, resulting in a 65% reduction in manual documentation time
- Implemented an admin dashboard via **Vue** and **TypeScript** to manage client permissions and license agreements hosted in **S3**

Deloitte, Consulting

Software Engineer Intern

Sept 2021 – Dec 2021

Toronto, ON

- Led a team of 4 to engineer Canada's first all-inclusive insurance analytics solution POC with **React**, **NodeJS** and **Redshift**, expected to win client partnerships worth over \$2 million
- Amplified clean data availability by 21%, leveraging data pipelines to run ETL jobs using **Python**, **AWS** and Xplenty connectors

CERTIFICATIONS

AWS Certified Solutions Architect - Associate | In Progress

September 2024

AWS Certified Cloud Practitioner | Credential ID: KC3KQ9GLNF44QDS9

November 2021