Soham Shah

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EDUCATION

University of Waterloo — Waterloo, ON
Bachelor of Computer Science - Specialization in Software Engineering, Minor in Economics — *Sept 2020 – Apr 2025*
Relevant Coursework: Data Structures & Algorithms (C), Operating Systems (C++), Object Oriented Programs (C++) — **cGPA: 85%**

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, C/C++, Java, Kotlin, SQL, GraphQL, HTML, CSS
Frameworks/Libraries: React, Node, React Native, Jest, Storybook, Vue.js, Express, Flask, Pandas, NumPy
Tools/Technologies: AWS, MySQL, PostgresSQL, MongoDB, Docker, Linux, Postman, Git, Github, Jira

EXPERIENCE

Amazon — **May 2024 – Aug 2024**
Software Developement Intern — *Vancouver, BC*

- Creating innovative accounting, tax and financial technology solutions using **Java** and **AWS** to support 2.7M+ global sellers

Wealthsimple (Crypto) — **Jan 2024 – April 2024**
Software Developer Intern — *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 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 flow
- Awarded best customer service hack award for developing an automated debit/credit card replacement feature on the app using **Figma**, **Typescript** and **React-Native**, projected to save the CX team 80+ hours monthly

CPP Investment Board — **Sept 2023 – Dec 2023**
Software Engineer Intern — *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
- Implemented filtering logic using **Python** for missing data in financial positions, achieving a 26% decrease in data-related errors

Wealthsimple — **May 2023 – Aug 2023**
Software Developer Intern — *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%
- Leveraged **LLM's** to automatically generate attack narratives for vulnerabilities, enabling more comprehensive threat modeling
- Achieved a security posture rating of 96% by collaborating with engineering teams to successfully remediate 79 vulnerabilities

Oliver Wyman — **May 2022 – Aug 2022**
Software Engineer Intern — *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
- Re-engineered iReplicate product by creating logic that scales down **linear programs** for optimization and applied a new **MIP solver**, improving data compression success rate by 12%
- Implemented an admin dashboard via **Vue** and **TypeScript** to manage client permissions and license agreements hosted in **S3**

Deloitte, Consulting — **Sept 2021 – Dec 2021**
Software Engineer Intern — *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
- Streamlined data consolidation processes by employing **data pipelines** and **ETL** jobs amplifying clean data availability by 21%
- Increased user interactions by 34% using **A/B testing** data to analyze user behaviour through **SageMaker** predictive models

CERTIFICATIONS

AWS Certified Cloud Practitioner | Credential ID: KC3KQ9GLNF44QDS9 — *November 2021*