SOHAM SHAH

📞 647-915-2668 | ✉ s269shah@uwaterloo.ca | 🔗 sohamshah06 | ⭘ soham06 | 🌐 sohamshah.netlify.app

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: 86%**

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C/C++, C#, Java, Kotlin, SQL, R, GraphQL, HTML, CSS
Frameworks/Libraries: React, Node, Vue.js, Express, Flask, Pandas, NumPy, JavaFX
Tools/Technologies: AWS, MySQL, MongoDB, Docker, Apache Airflow, SQLite, Linux, Postman, Git, Github, Jira

EXPERIENCE

Wealthsimple **Jan 2024 – April 2024**
Software Engineer Intern *Toronto, ON*
- Developing new features for the Crypto product using **TypeScript, GraphQL**, and **Ruby on Rails** to support 3+ million users

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 slash import job run times from 2 hours to 20 minutes
- Implemented filtering logic in **Python** for missing data in financial positions, achieving a 26% decrease in data-related errors
- Facilitated efforts to migrate deployment process for 50+ repos to **Github Actions** and launch streamlined code review process

Wealthsimple **May 2023 – Aug 2023**
Software Engineer 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
- Designed a **Slackbot** that alerts teams of upcoming Jira deadlines, increasing timely completion of vulnerability tickets by 22%
- 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

PROJECTS

Rewind ⭘ 🌐 | *React, Node, Express, MongoDB, MaterialUI, Redux, Axios*
- Created a web based personal memory sharing platform using **MERN** stack to support **10+ CRUD functionalities**
- Utilized **MaterialUI** to create a responsive UI, and integrated **Axios** to make client-side requests and transform response data
- Built a **RESTful API** using **Node** to communicate with a **MongoDB** Cluster to facilitate storage and modification of post data

CERTIFICATIONS

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