

SOHAM SHAH

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EDUCATION

University of Waterloo

Bachelor of Honours Computer Science (Software Engineering Specialization), Minor in Economics

Relevant Coursework: Data Structures, Algorithms, Object Oriented Programming

Waterloo, ON

Sept 2020 – Apr 2025 (Expected)

GPA: 3.7/4.0

TECHNICAL SKILLS

Languages: Javascript, Python, C++, C, C#, Kotlin, Typescript, SQL, HTML, CSS, R

Frameworks/Libraries: React, Node.js, Vue.js, Express, Flask, Pandas, NumPy, JavaFX, JUnit, Gradle

Tools/Technologies: AWS, MongoDB, MySQL, SQLite, Git, Android, Linux, Postman, Gitlab, Github, Bitbucket, Jira, Confluence

EXPERIENCE

Software Engineer Intern

May 2023 – Present

Wealthsimple

Toronto, ON

- Designed a Slackbot that alerts teams of upcoming deadlines, increasing timely completion of vulnerability tickets by 22%
- Integrating a dynamic testing solution into security infrastructure using AWS to detect security threats within production code
- Leveraging AI model's to generate attack narratives for reported vulnerabilities, enabling more comprehensive threat modeling

Software Engineer Intern

May 2022 – Aug 2022

Oliver Wyman

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 OW iReplicate by creating logic to scale down linear programs and implementing a new MIP solver, improving data compression success rate by 12%
- Reduced 18% of manual testing load by using Python scripts to generate 30+ large scale linear programs (LP), solve each LP through various MIP solvers and summarize results in Excel
- Implemented an admin dashboard via Vue and TypeScript to manage client permission and license agreements hosted in S3

Software Engineer Intern

Sept 2021 – Dec 2021

Deloitte, Consulting

Toronto, ON

- Led a team of 4 to engineer Canada's first all-inclusive insurance analytics solution POC by using React and NodeJS, expected to win client partnerships worth over \$2 million
- Streamlined data consolidation processes by designing data pipelines and writing ETL jobs increasing clean data availability by 10% and enabling various business use cases
- Increased user interactions by 34% using A/B testing data to analyze user behaviour through predictive models in SageMaker
- Worked on Deloitte InsurCloud's usage-based IoT telematics solution for insurance clients using Python and Raspberry Pi, projected to reduce claims payouts by 20%
- Re-provisioned existing cloud infrastructure for insurance solutions using AWS tools like EC2 Instances, S3, Elastic Beanstalk, Codepipelines, and Lambda, reducing cloud costs by 7%

PROJECTS

Rewind 🌐 | *React, NodeJs, Express, MongoDB, Material-UI, Redux, Axios*

- Created a web based personal memory sharing platform using MERN stack to support 7+ 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

TextTrade 📱 | *Python, Flask, Twilio API, Alpaca API, Heroku*

- Deployed a SMS bot with 12+ commands by defining API endpoints using Python and Flask to paper trade financial securities
- Leveraged Twilio's API to send outbound and receive inbound text messages, and used the Alpaca API to make HTTP requests to execute buy/sell orders or retrieve market data

CERTIFICATIONS

AWS Certified Cloud Practitioner | Credential ID: KC3KQ9GLNF44QDS9

November 2021