# SOHAM SHAH

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## EDUCATION

**University of Waterloo**                                                      **Waterloo, ON**
*Candidate for Honours Bachelor of Computer Science*                *Sept 2020 – Apr 2025 (Expected)*
*Relevant Coursework: Data Structures, Algorithms, Object Oriented Programming*          **GPA: 3.7/4.00**

## TECHNICAL SKILLS

**Languages**: Javascript, Typescript, Python, C, C++, C#, SQL, R, HTML, CSS
**Frameworks/Libraries:**: React, Node, Express, Flask, Pandas, NumPy, Coin-OR CBC & Symphony Solver
**Tools/Technologies**: Git, MongoDB, MSSQL, AWS, Linux, Postman, Jira, Figma, Bitbucket, Google Analytics

## EXPERIENCE

**Software Engineer Intern**                                            **May 2022 – August 2022**
*Oliver Wyman*                                                                 *Toronto, ON*

- Developed functionality for life insurers to auto generate financial reporting documentation for **35+** workflows on the Atlas platform by implementing a stack-based architecture in C#, reducing manual documentation time by **65%**
- Re-engineered OW iReplicate by creating logic to scale down the generated linear programs and implementing a new MIP solver in C#, improving policy inforce compression success rate by **12%**
- Automated process to generate **30+** large scale linear programs, solve each LP through various Coin-OR MIP solver's and store relevant comparison metrics in an Excel table by writing **Python** scripts
- Collaborated closely with senior management to outline onboarding best practice guidelines, implement a knowledge base and create technical documentation expected to reduce intern onboarding times by **29%.**
- Implemented AWS sync feature for the internal deployment utility through **Vue and TypeScript**, allowing developers to automatically push updates to user software permissions and client license expirations to **S3** bucket using a GUI

**Co-Founder**                                                               **Aug 2022 – Present**
*SpotBook*                                                                    *Brampton, ON*

- Spearheading the development and deployment of a pre-launch iOS app using **Swift, Xcode** which serves as an online marketplace for users to rent local sports and recreational facilities expected to initially host **25+** local facilities.
- Translated **12+** user stories into **8** engaging user interfaces using **Figma** to provide an optimized user experience.
- Created a business plan to outline the values, marketing objectives, financial plans and growth plans of company.

**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 implementing a backend architecture on **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%** to enable data analytics, modelling and visualization use cases.
- Collaborated on Deloitte InsurCloud's usage-based IoT telematics solution for insurance clients using **Python and Raspberry Pi** which is projected to reduce claims payouts by **20%** and reduce auto premiums by **18%**.
- Re-provisioned existing cloud infrastructure for insurance solutions using **AWS** tools such as EC2 Instances, S3, Elastic Beanstalk, Codepiplines, Glue and Sagemaker reducing cloud costs by **7%.**

## PROJECTS

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

- Developed a personal memory sharing web platform using **MERN Stack** with CRUD functionalities to support **7 app** in-app activities such as making new posts, deleting posts, liking posts, commenting on posts and updating posts.
- Implemented **MaterialUI** to create an elegant UI, while performing HTTP requests using **Axios** to obtain data.
- Used **NodeJS** for the backend and connected to a **MongoDB** Cluster to define data schema, store and update data.

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

- Developed a SMS bot with **12+ commands** using Python to paper trade stocks, index funds and crypto.
- Leveraged Twilio's API to send outbound and receive inbound text messages, and used Alpaca API to make **HTTP requests** to execute buy/sell orders or retrieve market data.
- Deployed the bot using **Heroku** and set up a **HTTP monitor** on UpTimeRobot to allow for 24x7 connectivity.

## CERTIFICATIONS

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