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: 3.7/4.0**

TECHNICAL SKILLS

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

EXPERIENCE

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

- Developed functionality for life insurers to auto generate financial reporting documentation for 35+ workflows by implementing a stack-based architecture in **C#**, reducing manual documentation time by 65%
- Re-engineered OW iReplicate by creating logic to scale down linear programs and implementing a new **MIP solver**, which improved data compression success rate by 12%
- Automated process to generate and solve 30+ large scale **linear programs (LP)** through various MIP solvers through **Python** scripts, removing 18% of manual testing load
- Collaborated closely with senior management to implement an intern knowledge base and design technical documentation forecasting a 29% reduction in intern onboarding times
- Implemented AWS sync capability using **Vue** and **TypeScript**, allowing developers to automatically push updates to 200+ client user permissions to **S3** through the GUI

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

- Spearheaded the development and deployment of a pre-launch iOS app using **Swift** 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%
- Re-provisioned existing cloud infrastructure for insurance solutions using **AWS** tools such as EC2 Instances, S3, Elastic Beanstalk, Codepiplines, and Lambda reducing cloud costs by 7%
- Increased user interactions by 44% after conducting **A/B testing** to analyze user behaviour through predictive models

PROJECTS

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

- Designed 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
- Integrated **NodeJS** for the backend and a **MongoDB Cluster** for the database to store and update object based 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 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*