SOHAM SHAH

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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, Bitbucket, Jira, Confluence

EXPERIENCE

Software Engineer Intern   **May 2023 – Present**
Wealthsimple   *Toronto, ON*

- Integrating a DAST solution into security infrastructure using **Docker** and **EC2** to detect vulnerabilities in live production code
- Designing a **Slackbot** that notifies development teams of reported vulnerabilities in Vulcan.io and automates Jira ticket creation

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
- Collaborated closely with senior management to implement an intern knowledge base and a **technical documentation framework**, forecasting a 29% reduction in team onboarding time
- Implemented an admin dashboard via **Vue** and **TypeScript** to manage client permission and license agreements hosted on **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
- 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, Codepiplines, and Lambda, reducing cloud costs by 7%
- Increased user interactions by 34% using A/B testing data to analyze user behaviour through **predictive models** in **SageMaker**

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 an elegant UI, while implementing **Axios** to facilitate HTTP 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

EDUCATION

University of Waterloo   **Waterloo, ON**
Candidate for Honours Bachelor of Computer Science, Minor in Economics - **GPA: 3.7**   *Sept 2020 – Apr 2025 (Expected)*

CERTIFICATIONS

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