SHUBH SEHGAL

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WORK EXPERIENCE

Software Engineer Intern | TD Bank   May 2023 – August 2023
Python, Microsoft Azure
- Contributed to the **ETL Azure Data Factory** framework to migrate data from on-premise servers to **DataBricks**
- Optimized the creation process for hundreds of database tables by developing a **Python** project for automatic **Synapse DDL (SQL)** script generation, eliminating the need to write scripts for individual tables
- Leveraged Google/Facebook ad **APIs** to match advertisement viewers with new customers to provide insights into advertisement campaign performances

Software Engineer Intern | Evertz Microsystems   May 2021 – April 2022
Python, AWS, REST APIs
- Assisted with the development of Evertz.io, a cloud-based **SaaS** product that utilizes **AWS**
- Responsible for creating **REST API** methods using **Python** for client billing and account services
- Wrote unit tests with **Pytest** and performed end-to-end testing with **HTTP requests** on **Postman**
- Modified **AWS CloudFormation** templates to create resources such as IAM policies, roles, and lambda functions
- Increased efficiency of deploying microservices by automating the process for creating **DynamoDB** Global Tables

SKILLS

Programming: Python, Java, C/C++, SQL, JavaScript, HTML/CSS, MATLAB, Bash
Tools/Frameworks: Amazon Web Services (AWS), Microsoft Azure, Git, GitHub, Linux, Postman, Jira, RESTful APIs

EXTRA-CURRICULAR ACTIVITIES

Technical Executive | DeltaHacks   June 2020 – September 2023
JavaScript (Vue.js), HTML, CSS
- Created components for the hackathon's website per the design team's mock-ups with **Vue.js, HTML, and CSS**
- Optimized the applicant review process for judges by adding an application filter feature in the marking portal, thus increasing marking efficiency by 30%

PROJECTS

Driver Fatigue Detector | DeltaHacks Hackathon
Python, OpenCV
- Collaborated with a team to create a **Python** application for cars to prevent impaired driving due to fatigue
- Used the **OpenCV** library to monitor a driver's face with webcam input and send warnings when indicators correlated to tiredness were detected

Investment Tracker | Personal
Python, Selenium
- Developed an application that automates Google Chrome to display stock market conditions to an investor
- Automatically navigates to the webpage corresponding to the user's market watchlist, and fills in login credentials using **Python** and **Selenium**

EDUCATION

BEng. Electrical Engineering | McMaster University   September 2018 – April 2023 (Expected)
- Fourth-year Electrical Engineering (co-op) major
- Relevant Courses
  - COMPENG 2SI4 – Data Structures and Algorithms (Java)
  - COMPENG 2SH4 – Principles of Programming (Java, C, and Object-oriented programming)