MALHAR SHAH

Fourth Year Computer Engineering Student
Seeking New Grad 2023 Software Engineer Position

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WORK EXPERIENCE

IBM   *May 2021 – April 2023*
Backend Developer Intern
- Developed and maintained internal developer tools/applications used by **300+** WebSphere Application Server (WAS) **engineers**
- Deployed **Docker** containerized WAS applications on Red Hat **OpenShift cluster** and tracked availability to **reduce downtime**
- Migrated **microservices** to **Kubernetes cluster** for **efficient container orchestration** and management
- Implemented a **computer vision** hand gesture recognition system to control a rover using **OpenCV** with **over 90% accuracy**
- Represented IBM at a Java developer conference DevNexus
- Resolved **bugs, defects** and **issues** using **Java** and **Python**

MeshMD Inc   *May 2020 – August 2020*
Software Quality Assurance Intern
- Designed and executed over **500 test cases**, procedures, and test plans for **Web Application Testing**
- Automated testing using **Java**, **Selenium**, and **TestNG**
- Tracked **workflow issues** and **resolved over 200 defects** through systematic software testing

Husky Energy   *May 2019 – August 2019*
Information Technology Intern

SOFTWARE PROJECTS

Fraudulent Transaction Detection Web Application ⬡
Python + HTML + CSS + Bootstrap
- Trained ML model via **scikit-learn library** to **detect** potentially fraudulent transactions with an **accuracy of over 85%** using a public dataset of user's previous banking history
- Stored all user transactions in a **MongoDB database** and collected new verified transactions to improve the model

Vaccine Distribution Prioritization Tool ⬡
Python + JavaScript
- Processed patient's health data utilizing **Pandas** and **Sklearn** to sort patient's priority to receive vaccination based on their risk levels with an **accuracy of 86%**
- Initiated and deployed a live database via **Dropbase API** and set up communication with patients via **Vonage API**

Personal Voice Chat-Bot Android Application ⬡
Java + JavaScript + XML
- Built an **automated verbal communication** application that engages in conversations to help users improve their mood
- Implemented user **database** via **Firebase**, language, and communication with the chatbot via **DialogFlow**

EDUCATION

University of Toronto   *2018 - 2023*
B.A.Sc. in Computer Engineering
Minor in Artificial Intelligence

Relevant Coursework: Software Engineering, Operating Systems, Computer Security, Computer Networks, Intro. to Machine Learning, AI Fundamentals, Data Structures & Algorithms, Databases

SKILLS

Languages
Java, C++/C, Python, JavaScript

Frameworks/ Databases
Flask, React, Bootstrap, MongoDB, SQL

Technology/Tools
Git, Docker, Kubernetes, Selenium, Android Studio, GDB, TestNG

AWARDS

Hack the North 2020++ Ⓓ   *2021*
Vonage API Challenge
DeltaHacks VI Ⓓ   *2020*
Best Finance Hack
Hack the North 2019 Ⓓ   *2019*
SurveyMonkey's API Challenge
Engineering Faculty   *2018*
Scholarship – $5000

LEADERSHIP

University of Toronto Machine Intelligence Student Team *2019 – 2020*
External Associate

Volunteer Engineering Experience Program *2018 – 2019*
Project Management Team Member

INTERESTS

Playing and watching Soccer, Basketball Travelling and exploring the world