Tahmeed Hossain | Software Engineer/ Test Automation Engineer

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TECHNICAL SKILLS

Frontend

- ASP.NET
- JavaScript
- ReactJS
- Flutter
- MaterialUI/BootStrapCSS
- GatsbyJS

Backend

- NodeJS & TypeScriptJS
- PostgreSQL
- PHP & MySQL
- GraphQL
- Firebase
- Java/C#

Software Dev. Environments

- Selenium/jaCoCo/WebDriver
- Docker & Digital Ocean
- R, Bash, and Excel
- Visual Studio & Anaconda
- JEST & JenkinsCl
- GitHub/BitBucket

TECHNICAL WORK EXPERIENCE

Global Relay – Software Engineer in Test (Automation)

Jan 2022 - Present

- Built automated E2E tests and mock tests with WebdriverIO in Selenium on various testing environments
- Implemented mock service to isolate from other teams and return mock requests/responses
- Built Page-Object-Models to allow for testing new features and frontend components
- Ran regression and smoke tests for deployment on product releases going out to over 100k users
- Bug reporting and verification and triaging nightly automation runs in JenkinsCI

Onevest – Software Engineer

Sep 2021 - December 2021

- Moved Test reporting system on AWS, and created automated test runs with GitHub Actions
- Designed test reporting tool to generate **Allure reports** with greater test visibility and precise root cause analysis
- Built API token to allow enterprises to set entitlements, permissions and roles with GraphQL Queries and Mutations
- Implemented whiteList IP address security feature that would enable enterprise to select specific users to make API calls.

<u>Alstar Brokerage Solutions</u> – FullStack Engineer (Part-time)

Aug 2021 - December 2021

- Completely redesigned and developed components for frontend in HTML, javascript and BootstrapCSS
- Built backend services for multiple features in C# and built different user access modes menus
- Reduced the average number of clicks by ~50%, by creating frontend components for more intuitive navigation
- Deployed release of MVP to over 20 different brokerage and gathered high level business requirements
- Wrote User-defined stored procedures (SQL Queries) and created/managed relational tables on MSSQL

OMMATY – Backend Software Engineer (Core-Developer)

Jan 2021 - September 2021

- Developing an IOS/Android Application using Flutter, NodeJS, and TypescriptJS
- Built CRUD Services for multiple features and data transfer systems from client to server-side REST APIs
- Wrote test scripts and unit tests for data layer functions to meet project requirements using JEST
- Implement backend functions of Offer Services by writing SQL Queries and created entities in Typescript.js
- Collaborated across cross-functional teams to deploy data pipelines in development and production

Agronome – Backend Developer/DevOps Engineer

May 2020 - Aug 2020

- Built completely functional user-driven system with PostgreSQL database, NodeJS backend, and ReactJS frontend
- Implemented elastic search from parsing csv files and generated crop data based on specific user inputs
- Built data pipelines and development environments using Docker containers and deployment using Digital Ocean droplets
- Used Google Maps API to store farm location and area with exact coordinates and created all data storage functionality for website

BC Cancer Research Medical Imaging Informatics Filtration

Jan 2020

- Analyzed different datasets using Scipy/Numpy and parsed pixel image data from CT scans, MRIs, and Mammograms to translate into ROI images and detect variations in pixel data
- Using **OpenCV** to process imaging and probe raw image data for enhanced analysis and visualization Automate data filtration processes and assessment of statistical modeling using **Python** scripts and **Scikit-Image**

DESIGN TEAM:

Study Room Booking App

Jan 2020 - Sep 2020

- Built a High-Fidelity prototype on Android Studio using Java to create an efficient booking system.
- Used Greedy Algorithm to implement scheduling and tracking of room bookings
- Built Seamless User Interface to allows users to book rooms with minimal inputs and store data on Google Firebase

ACADEMIC:

Wall Street Data Scraper

Jan 2021

- Implemented various sorting algorithms to find the top three mentioned stocks in the largest trading forum using Python
- Used Reddit and Yahoo Finance API to generate daily datasets to parse stock tickers and ticker values
- Found 10% increase in top three stocks found by heapMax algorithm in O (n log n)
- Designed Python scripts to create JSON files of daily data statistics and track trends over time

Chatbot Model (ML/Neural Networks)

Jan 2020

- Constructed a complex neural network using stochastic gradient descent and principal component analysis using python libraries such as **Tensorflow** and **TFlearn**
- Created custom tokenized datasets sorted by natural language processing patterns (nltk) stored into dictionary arrays and converted into NumPy arrays to train neural networks on user input patterns.
- Tested and implemented different activation functions on neural network such as sigmoid, SoftMax and linear functions to optimized data accuracy by mapping response values
- Implemented a UI to have user inputs taken from messenger system and give dynamic feedback and generate outputs

PERSONAL:

Portfolio Website Aug 2019

- Created Personal Portfolio website using React.js and Gatsby.js to create fast-responsive single page static webpage
- Implemented different widgets within website to hold icons and datasets for sections of the webpage
- Continuous development and deployment of software project through **Github/DigitalOcean** droplet and on **Netlify** server

EDUCATION

University of British Columbia – B.Sc. in Computer Science

Sep 2016 – Apr 2021

Noteworthy courses completed: Data Structures and Algorithms, Networking, Analysis of Software Engineering Projects,
 Introduction to Machine Learning, Operating Systems, System Software Engineering, Introduction to Medical Imaging and Imaging
 Informatics

AWARDS

Dean's List Designation
UBC Hackathon 3rd Place

2020-2021

Jan 2020