

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
- MSSQL
- PHP & MySQL
- PostgreSQL & MariaDB
- Firebase
- Java/C#

Software Dev. Environments

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

TECHNICAL WORK EXPERIENCE

Global Relay – Software Engineer in Test (Automation)

Jan 2022 – Present

- Built automated E2E tests with **WebdriverIO** in **Selenium** running daily on **JenkinsCI**
- Built Page-Object-Models to allow for testing new features and user stories
- Wrote clear, concise test cases and test scripts for Message Web application in **Typescript.js**
- 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 **Javascript**

Alstar Brokerage Solutions – DevOps Engineer

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
- Communicated release of **MVP** to over 50 different brokerage and gathered high level business requirements
- Wrote store 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 (Capstone) – Backend Developer (Project Manager)

May 2020 – Aug 2020

- Developed web application that provides accessibility to agricultural data to farmers and government workers in Kenya
- 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
- Optimized development and coordinated deployment of software project within a 4-month timeline with Agile Software development using **JIRA** and **GIT**
- 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

TECHNICAL PROJECTS

DESIGN TEAM:

Study Room Booking App

Jan 2020 – Sep 2020

- Built High-Fidelity prototype on Android Studio using **Java** to create 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

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 Mammographys 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 modelling using **Python** scripts and **Scikit-Image**

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/Digital Ocean** 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

2020-2021

UBC Hackathon 3rd Place

Jan 2020