

# Tahmeed Hossain | Software Engineer with experience in Full Stack Development and Machine Learning

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## TECHNICAL SKILLS

### Frontend

- HTML & CSS
- JavaScript
- ReactJS
- Flutter
- MaterialUI & GatsbyJS

### Backend

- NodeJS & TypeScriptJS
- Express
- PHP & MySQL
- PostgreSQL & MariaDB
- Firebase
- Java & Python

### Software Dev. Environments

- Python, C++, C#
- Docker & Digital Ocean
- R, Bash, and Excel
- Visual Studio & Anaconda
- JEST & Jenkins
- SolidWorks & AutoCAD

## TECHNICAL WORK EXPERIENCE

### OMMATY – Backend Software Engineer (Core-Developer)

Jan 2021 – June 2020

- 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 (CO-OP) – 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** and deployment using **Digital Ocean**

## TECHNICAL PROJECTS

### DESIGN TEAM:

#### [Study Room Booking App \(Java\)](#)

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:

#### WSB 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

Jan 2020

## Chatbot Model (ML/Neural Networks)

- 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:

### Fitness World Sports Performance Specialist

Jan 2021 - Present

- Created customized exercise programs and meal plans for clients' specific goals and requirements
- Help individuals build functional movement through joints and fixing muscle imbalance with corrective exercise
- Manage 15+ clients in fast paced environment with continuous communication and proper scheduling

### Personal Trainer App

Nov 2019 – Apr 2020

- Built a Personal Trainer Client Communication app using Java in Android studio for **UI design** and **Google Firebase** for the database
- Designed and programmed application that is geared towards an older demographics to provide user friendly interface
- Navigated a team of 4 into creating a login system for the app, allowed trainers to create client programs and distribute it to clients through platform

### UBC Recreation Personal Trainer

Sep 2019 – Apr 2020

- Designed and built a small-scale business to manage time scheduling for individuals that need help with health&wellness
- Created exercise prescriptions for clients based on specific goals to be completed within expected timeline
- Observed and assessed clients' movements and patterns of exercise to give real time feedback and corrections.

### 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 **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 5<sup>th</sup> Place

Jan 2020

## PROFESSIONAL AFFILIATIONS

### Society of Software Engineers

Oct 2020 – Present