

Tahmeed Mostafiz

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Skills

Languages: C++, JavaScript, Dart, Java, C, Python, Bash, R, HTML, CSS, Racket

Frameworks/ Technologies: React, Vue, Redux, Node, Flutter, MongoDB, Firebase, Flask, Git, Linux

Experience

TD Bank

Waterloo, Canada

SOFTWARE DEVELOPER

Sept 2020 - Dec 2020

- Led development of an invoicing solution using **Flutter UI** with **event-triggered** cloud functions to perform CRUD operations and generated **unique** URLs to display customer-specific invoice webpages
- Safeguarded database changes using **atomic transactions** and **optimized** HTTP requests by **84%** by **caching** data in Firebase's global CDN
- Built an interactive site with embedded playlists and slideshows for virtual events - **won** TD Hackweek and pitched to **SVP** of TD Bank
- Automated user authentication and interac request money-flow with **puppeteer** scripts utilizing **async/await** patterns and the **js event loop**
- Implemented **filtering** with multiple criteria and a **responsive** grid layout in **Vuejs** for covid hub live at tdlab.io/covid
- Worked in an **independent** and **pair-programming** environment with bi-weekly **agile sprints** and **daily standups**

The Tech Academy

Dhaka, Bangladesh

MENTOR

Jul. 2017 - May. 2019

- Built various gaming apps using **Processing** (visual software sketchbook built on JAVA) and multiple embedded systems using **Arduino**
- **Managed** lesson planning, student training and project development for the organisation
- Built an **autonomous** and driver-controlled robot for the Global FIRST Robotics Olympics 2018

Projects

Subleteer

MONGODB, EXPRESS, REACT, NODE, REDUX, JWT

- Developed a platform where subleetees can quickly and effortlessly find their ideal apartment
- Built with React **hooks** and managed application state using **Redux**; leveraged **Google Places API** to power address autocompletion and provide geolocation services
- Created a set of services using **Express (Node)** and **MongoDB** to allow the UI to retrieve filtered listings and user data
- Implemented user authentication on Nodejs using **JWT Tokens** and **bcrypt**

RateMyPortfolio

REACT, REDUX, MATERIAL UI, CHARTJS, FIREBASE, NETLIFY

- Created a social platform to track stock prices, view trends, comment on and rate portfolios of other users. Deployed using **Netlify**: <https://ratemyportfolio.netlify.app/>
- Developed a **responsive** web app using **React Hooks** and **Redux -Thunk** leveraging UI component libraries such as **Material UI** and **ChartJS**
- Retrieved stock pricing and charting data using an external **REST API** to get real-time prices, historical stock data and stock search functionality
- Utilized **Firestore** documents to store stock and user data, **Firebase Authentication** to manage user login and registration, and **Firebase Cloud Functions** to send **real-time** push notifications to users

UWScheduler

ANGULAR, BOOTSTRAP, MATERIAL, FLASK

- Created a web application to optimize scheduling for UW students by generating a conflict-free schedule while prioritizing professor ratings
- Implemented the **Angular** UI elements using **Material/Bootstrap** components and handled user input by leveraging **Reactive Forms**
- Developed **REST APIs** (backend) using **Flask** for parsing the **JSON responses** scraped from various sites
- Improved page load time **by 20s** by developing a **caching** solution for previously scraped data

Watopoly

C++

- Built a command-line version of Monopoly utilizing **MVC**, **Observer**, **Visitor** and **RAII** design patterns
- Utilized an effective **git branching model**, **peer reviews** and **regression testing** to ensure bug-free code

Education

University of Waterloo

CANDIDATE FOR B.S. IN COMPUTER SCIENCE

- Cumulative Average: 91.0 (2B)
- Computer Science Upper-Year Scholarship
- Relevant Courses: *Data Structures and Data Management, Object-Oriented Software Development, Foundations of Sequential Programs*