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

HomeX   *Toronto, Canada*

SOFTWARE DEVELOPER (MOBILE)   *May 2021 - Aug 2021*

- Built flutter-web plugin for the **twilio-video** js sdk by utilizing **event-listeners**, **streams**, and **js interop** which has 120+ likes on pubdev: *https://pub.dev/packages/twilio_programmable_video*
- Presented proof-of-concept to **company-wide presentation**, **gained approval** and wrote **PR FAQ** to introduce a new feature to consumer applications reducing developer bandwidth and web bundle size by **40%**
- Redesigned HomeX app's homescreen integrating **null-safe** Flutter UI with **GraphQL** endpoints conforming to **MVVM** architecture using **MobX**
- Implemented **native** Android logic allowing certain tasks to run in background after exiting increasing the HomeX app startup time by **120%** on Android devices

TD Bank   *Waterloo, Canada*

SOFTWARE DEVELOPER   *Sept 2020 - Dec 2020*

- **Led** development of an invoicing app 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 **pupeteer** scripts utilizing **async/await** patterns and the **js event loop**

Projects

Subleteer ⬀

MONGODB, EXPRESS, REACT, NODE, REDUX, JWT

- 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

- 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

- 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*