

# Tahmeed Mostafiz

☎ (519) 502-3884 | ✉ t2mostaf@uwaterloo.ca | 📱 Tahmeed27 | 🌐 tahmeed-mostafiz

## Skills

**Languages:** C++, TypeScript, Dart, C, Python, Bash, R, XML, HTML, CSS

**Frameworks/ Technologies:** React, Redux, GraphQL, Node, Flutter, MongoDB, Firebase, Git, Linux

## Experience

### HomeX

Toronto, Canada

SOFTWARE DEVELOPER

May 2021 - Aug 2021

- Implemented web access (based on Flutter) for the **Twilio Video** package by leveraging **event listeners**, **streams** and **js interlop** which has garnered **130+** likes on pubdev: [https://pub.dev/packages/twilio\\_programmable\\_video](https://pub.dev/packages/twilio_programmable_video)
- Built a Backend For Frontend (BFF) with a **GraphQL** API, using **Apollo Server (Express)**'s data sources integrating multiple **micro services**
- Championed a new functionality - modularized video-calling that reduces developer bandwidth and improves performance by decreasing bundle size by **40%** - from pitching at **company wide** presentation to gaining approvals by writing Press-Release (**PR**) and **FAQ** documentation
- Redesigned HomeX app's homescreen using **null-safe** Flutter UI and various service managers adhering to **MVVM** architecture using **MobX**
- Implemented logic using **native Android** code to offload tasks in the background decreasing app startup time by **80%**

### 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 **puppeteer** scripts utilizing **async/await** patterns and the **js event loop**

### UWBlueprint

Waterloo, Canada

PROJECT LEAD

Sept 2021 - Present

- Lead** team of developers and designers to **architect** and implement a **full-stack** author booking and book review system for the non-profit, Canadian Children Book Centre using **React**, **Node** and **PostgreSQL**

## Projects

### Subleeteer

MONGODB, EXPRESS, REACT, NODE, REDUX, JWT

- Built with **React hooks** and **Redux**; leveraged **Google Places API** to power address autocomplete 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 utilizing 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 **Firebase Authentication** for signing up users and **Firebase Cloud Functions** to send **real-time** push notifications

### 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: 91.4 (3A), Computer Science Upper-Year Scholarship
- Relevant Courses: *Algorithms, Data Structures and Data Management, Object-Oriented Software Development*