

Tahmeed Mostafiz

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Skills

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

Technologies: AWS, Node, GraphQL, PostgreSQL, MongoDB, Firebase, React, AndroidStudio, Docker, Heroku

Education

University of Waterloo

CANDIDATE FOR B.S. IN COMPUTER SCIENCE

- Cumulative Average: 92.0 (3B), Computer Science Upper-Year Scholarship
- Relevant Courses: *Algorithms, Operating Systems, Data Structures and Data Management, Database Management*

Experience

Rippling

San Francisco, USA

SOFTWARE DEVELOPER

Sept 2022 - Dec 2022

- Incoming backend developer on the Filing team building a microservice written in Golang

Wish

Toronto, Canada

SOFTWARE DEVELOPER

Jan 2022 - Apr 2022

- Responsible for technical **design** and implementation of an invoice class **aggregating** data from nested **MongoDB** collections and **SQL** data
- Ensured optimality by leveraging **parallel** workflows uploading to **S3** simultaneously and handled scale by using the **decorator** pattern
- Facilitated bulk processing of one-time payments by **batching** jobs and queuing for **backend workers**, saving Accounting team **10 hrs/month**
- Updated **core** payment eligibility logic and disbursement flow for Chinese merchants in **high priority** response to lockdowns in China
- Designed payment validation logging schema, stored on **Prometheus**, and visualized on **Grafana** in daily crons that process over **9M** payments

HomeX

Toronto, Canada

SOFTWARE DEVELOPER

May 2021 - Aug 2021

- Introduced Flutter web support for **Twilio Video** utilizing **event listeners**, **streams** and **js interop** garnering **160+** likes on *pubdev: PR*
- Built a Backend For Frontend (**BFF**) with a **GraphQL** API, integrating multiple **micro services** and consumed by **client-facing** applications
- Launched cross-platform modularized video-calling - pitched at **company-wide** presentation and wrote formal feature proposal (**PR FAQ**)
- Implemented logic using **native Android** code to offload tasks in the background decreasing app startup time by **45%**

TD Bank

Waterloo, Canada

SOFTWARE DEVELOPER

Sept 2020 - Dec 2020

- Built an interactive site with embedded playlists and slideshows for virtual events - **won** TD Hackweek and presented to **SVP** of TD Bank
- Safeguarded database changes using **atomic transactions** and **optimized** HTTP requests by **34%** by **caching** data in Firebase's global CDN
- Developed an invoicing app using **Flutter** with **event-triggered** cloud functions to perform **CRUD** and generated unique invoice webpages
- Automated user authentication and interac request money-flow with **pupeteer** scripts utilizing **async/await** patterns and the **js event loop**

UWBlueprint

Waterloo, Canada

PROJECT LEAD

Sept 2021 - Apr 2022

- **Lead** team of developers and designers to build a **full-stack** application for an NPO using **React**, **Node (Express)** and **PostgreSQL**
- Designed **relational database schemas**, configured **CI/CD pipelines**, and **dockerized** application to facilitate friction-less development
- Setup staging and prod environments on **Heroku**, optimized for **client's budget constraints** and managed secrets using **Vault**
- Implemented **Sequelize (ORM)** models with complex associations featuring **transactions**, **constraints** and **eager loading** - tested using **Jest**
- Facilitated weekly work-sessions, bi-weekly client meetings, 1 on 1s, sprint planning, code reviews, debugging support and of course, socials!

Projects

Subleteer

MONGODB, EXPRESS, REACT, NODE, REDUX, JWT

- Built a set of services using **Express** and **MongoDB** to facilitate retrieval of filtered listings and authenticated using **JWT Tokens** and **bcrypt**

UWScheduler

ANGULAR, BOOTSTRAP, MATERIAL, FLASK

- Developed **REST APIs** using **Flask** to parse **JSON responses** scraped from various sites and **cached** results to improve load time by **20s**

Watopoly

C++

- Built a command-line version of Monopoly utilizing **MVC**, **Observer**, **Visitor** and **RAII** design patterns