Ali Ahmed

SOFTWARE DEVELOPER

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Profile Summary

- 2+ years of professional experience building Web & Mobile applications
- I am passionate about programming, a quick & avid learner, self-motivated, diligent, and I excel working both in teams and alone.

Skills

Languages:	JavaScript ES6+, TypeScript, C#, Haskell, HTML & CSS
Front-end:	React, React Native, Vue, Elm
Back-end:	.Net Core, Service Stack, Node JS (Express)
Database:	Postgres, MS SQL Server, MongoDB
Testing:	Jest, React Testing Library, Cypress
Cloud:	MS Azure (currently learning AWS)
Misc:	Flexbox & CSS Grid, Sass, Ant Design, material-ui, elm-ui

Certifications

- Microsoft Certified Azure Developer Associate (December 2020)

Experience

Developer II | Alberta Motor Association | *May 2021– Present*

At AMA I am currently working on the following project:

AMA's Driver Education System

The Driver Education system aka DRIVE is an online system that manages student registrations by tracking in-class, online and in-car driving lessons for a wide variety of driving courses. DRIVE is able to track the progression of a student, receive payment, key in instructor timesheets, generate payables & financial reports and provide certification.

Tech Stack: MS Dynamics 365, .Net Framework & Core, C#, React, TS, MS Azure, AWS, Moodle API.
Achievements:

- ✔ DRIVE is a legacy monolithic application, which is gradually being phased out to a Microservices Architecture. To facilitate that, I participated in many Event storming sessions to model the domain and identify events, Bounded Contexts, workflows and triggers etc. to eventually convert the app.
- ✔ Implemented a new feature (Online course versioning) and resolved existing bugs in the system like failed course upgrades, duplicate registrations and multiple certificate issuance issues.

FULL STACK DEVELOPER | Punchcard Systems | *July 2019 – May 2021*

Major Projects:

Birdie Break Mobile App & REST API Server

Enabling easy connection between parents & babysitters and providing the owners greater control over their babysitter service operating in Alberta.

Tech Stack: TS, React Native, C#, .Net Core, SQL Server, MS Azure, Stripe API, Twilio SMS.
Achievements:

✔ Participated in full product life-cycle, from requirements gathering, design, UX, server-side and front-end application architecture, wrote 70% of the code and reviewed the rest.
✔ Successfully launched the app on [Apple](#) & [Android](#) stores well within the project timelines with an extremely happy client.
✔ Few bugs – used post-production hours to add features such as payments & SMS notifications.

Driving Force Mobile App and Admin Portal

An app for field agents to carry out vehicle inspections online and offline, take photos and videos, upload and view the media items on the web portal.

Tech Stack: React Native, React, Redux, .Net Core, SQL Server, MS Azure, Jest, React Testing Library
Achievements:

✔ Introduced UI testing to team-mates using React Testing Library & Cypress JS.
✔ Implemented background upload feature by diving into native code and using Swift libraries.
✔ Used Azure Message Queues to handle the load on the Media Processing Azure function.

AlignTime – Teams and Slack Bot

Internal company project turned [product](#), AlignTime is an MS Teams and Slack bot which analyzes Harvest time entries to send out useful reminders and reports to employees and managers.

Tech Stack: TS, React, C#, SQL Server, MS Bot Framework, Harvest API.
Achievements:

✔ I implemented the initial version of the MS Teams Bot using MS Bot Framework and Azure Functions that periodically fetched data from Harvest API and sent out reminders, ascending the project from a Hackday idea to a product.
✔ Converted the app to allow multi-tenancy using the database-per-tenant pattern.
✔ Used Serverless technologies (Azure Message Queues and Azure Functions) to allow clients to specify their report and reminder schedules.

I strive to improve continuously and thus, in my spare time, work on my side projects, take courses and read books to improve my skills. My side projects can be viewed on my [portfolio](#) and [github](#).

I am self-taught, and previously worked as Utilities Manager for Pakistan's largest Electric power company, K-Electric, based in the city of Karachi, before moving to Canada in March 2019 as a Permanent Resident.

Education

2009   BE, Electrical Engineering   **|**   NED University of Engineering & Technology, Karachi, Pakistan
CS courses: Microprocessors & Assembly Language, Computer Architecture & Organization, Logic Design & Switching Theory, Programming with C Language, Fundamentals of Computer Engineering.

Open Source contributions & other activities

✔ I am a Core Contributor on [Taskell](#). Also contributed to various open source projects like [Hey Linda app for meditation](#), [TypeOfNaN JS Quizzes app](#), [Elm Ant Design](#) and various other projects.
✔ I love going to meetups. I gave a presentation on TypeScript ([link](#)) in Dev Edmonton Society's ExchangeJS meetup.
✔ Participated in the Advent of Code 2020 challenge using Haskell.
✔ My interests include Functional Programming, Reading, Science, Chess, Bridge & video games.