Imrul Kais Khan

Full Stack Developer [Dhaka, Bangladesh]

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Summary

Experienced Full Stack Developer offering versatile skills in backend, frontend, cloud services, and data engineering; ready to contribute to a dynamic team with commitment and collaboration.

SKILLS

Backend Development NodeJS, PHP, TypeScript, ExpressJS, NestJS, FeathersJS, RESTFul API, GraphQL, Swagger,

Jest, OAuth, PubSub, MQTT, SOLID Principles, Design Patterns

Database Management MySQL, PostgreSQL, SQLite, MongoDB, Redis

Frontend Development HTML5, CSS3, SASS, CSS Module, Bootstrap, JavaScript, ReactJS, VueJS, NuxtJS, Redux,

Vuex, Ant Design, Material UI

Cloud Services (AWS) EC2, VPC, Subnet, NAT, Routing Table, Security Group, IAM, Route53, RDS, S3, Load Balancer,

Auto Scaling

Cloud Services (GCP) Compute Engine, Cloud Network, Cloud DNS, GCS, GKE, BigQuery

DevOps Linux Server Administration, VPS, Docker, Kubernetes, Nginx, Github Actions, CI/CD Pipeline,

 ${\bf Terraform}$

Data Engineering AirByte, ELT Data Pipeline, Python DBT Tool

Project Management Agile Development, JIRA, Azure DevOps, Sprint Planning, Backlog, Tasks, Git Commit, Design

Documents

Work Experience

Backend Developer at MeldCx [Australia] [Liaison Office]

Aug 2022 - Jul 2023

- Designed and launched the mHotel application, integrating with various Property Management Software (PMS), resulting
 in streamlined hotel check-in/check-out processes across diverse properties.
- Revolutionized the guest experience by creating a self-check-in/check-out feature, and enhancing guest satisfaction
 by reducing wait times.
- Built a unified interface for the mHotel application, standardizing API response transformation, and improving efficiency and consistency across different API interfaces.
- Increased transaction security and trust by integrating payment systems with Shift4, facilitating smooth and encrypted credit card attachment to hotel reservations.
- Engineered a robust **payment processing library** for the Frontend in JavaScript, adhering to **SOLID principles** and utilizing **design patterns**, leading to seamless integration with the **Shift4** payment system and enhancing payment **reliability**.

Intermediate Full-stack Engineer at Bitstrapped [Canada] [Remote]

Dec 2021 - Jul 2022

- Worked with Google Smart Factory and provisioned it to Boston Dynamic Cloud using Terraform.
- Enabled **real-time** data transmission from Boston Dynamic's **Spot Robot** to Google Smart Factory via PubSub channel.
- Developed Python-based image processing code for deployment on Boston Dynamic's Spot Robot.
- Configured Looker-administered Google **BigQuery** for streamlined data analysis.
- Conducted R&D on Airbyte ELT Tool and created custom sources and destinations.
- Designed Google Cloud Infrastructure for efficient data pipeline execution.
- Leveraged Google Container Registry (GCR) to push Airbyte source and destination.
- Automated Airbyte deployment within GCP Infrastructure.
- Utilized Airbyte custom source to extract Spotify data through API and loaded it into Google BigQuery.
- Partitioning & Clustering the BigQuery Table for better performance.
- Extract **Spotify** data through API using Airbyte custom source.
- Design various SQL Queries using python **DBT** Tool for (**T**)ransforming data in **ELT** process.

Full-Stack Developer at BrainStation-23 [Dhaka, Bangladesh]

- May 2020 Nov 2021
- Developing a Fintech Application which was connected with different banks in the USA and Mexico.
- Making API calls to different banks and conveying the response to Mobile Applications.
- Code refactoring, code optimization, performance-enhancing, implementing design patterns to improve the code quality.
- Documented all APIs using Swagger.
- Wrote Unit Tests and Integration Tests for all APIs.
- Admin Panel Dashboard **Frontend** development.
- Project Planning, Design Planning, and Requirement Analysis from Stakeholders.
- Transformed Adobe XD & **Figma** design to **ReactJS** Frontend.
- Used TypeScript to code ReactJS.
- React Component designing.
- Used Redux-Thunk for centralized state management.
- Used **Ant-Design** ReactJS library to design the Frontend.
- Implementing complex UI logic, Performance improvement.
- Project Management and helping Jr. Engineers.

Software Engineering Manager at Civilized Technologies [Dhaka, Bangladesh]

Sep 2019 - Mar 2020

- Lead the total development.
- Planned, Designed, and Developed an eCommerce web application from the ground up.
- Designed the total database schema as per requirements.
- Used AdonisJS (NodeJS Framework) for the Backend.
- Integrated PayPal payment method, Email Confirmation, OAuth, ORM, etc.
- Developed Frontend with **ReactJS** & **Redux**.
- Configured Service Worker for PWA capabilities.
- Configured Nginx for both ReactJS and NodeJS App.
- Architect the AWS Infrastructure to run that eCommerce App.
- Configured Github Actions and implemented CI/CD for quick deployment.
- Converted the AWS Infrastructure to Terraform code (IaC) for easy deployment.

Node.js Developer at CarBangla(Ride Sharing App) [Dhaka, Bangladesh]

Nov 2018 - Sep 2019

- Planned, Designed, and Developed ride-sharing app backend from the ground up.
- Architect the AWS Infrastructure to run the backend smoothly.
- Designed database schema and optimized query for better performance.
- Developed **mobile-friendly** RESTFul API.
- Configured various AWS services like RDS, S3, EC2 etc with Backend Application.
- Split monolithic system to Micro-Service based system to handle incoming traffic.
- Implemented Geospatial search and query feature through MongoDB.
- To get the driver's **car position** in **real-time**, implemented an **MQTT-based** messaging system.
- Also developed many features in the Admin Panel using PHP Laravel to operate the Ride Sharing Business.

Node.js Developer at Korbyt (Digital Signage) [USA]

Feb 2018 - Oct 2018

- Developed a Digital Signage app using ElectronJS which runs on an Embedded Windows Machine.
- Add features to render JS-based animation, and play Ads. videos, run slideshows on schedule.
- Created Windows Installer for that Digital Signage App.
- ElectronJS app auto update and remote machine deployment mechanism development.
- Worked on core Windows features like Windows registry and low-level Windows API.
- Designed a Real-Time Communication Portal named RMG InView using ElectronJS and Socket.IO.
- Implemented new features to RMG's multi-tenanted SAAS software which was developed using Laravel & PostgreSQL.

Spot on Factory

Client - Boston Dynamics

Tech Stack: Google Smart Factory, Python, PubSub, MQTT, Docker, Kubernetes, BigQuery

Description: I integrated Google Smart Factory with Boston Dynamics Spot Robots to detect factory hazards using Machine Learning. It is a new Google Cloud Manufacturing Solution product aimed at transforming traditional industries into Industry 4.0. My role involved gathering and deploying the Google Smart Factory Terraform code to the Boston Dynamics Google Cloud account. Additionally, I implemented real-time two-way communication between Spot Robot and Google Smart Factory.

AirByte ETL data pipeline from Spotify to Monstercat

Client - Monstercat

Tech Stack: Docker, AirByte (ELT pipeline), DBT, Golang, Google Cloud, BigQuery, Terraform

Description: My responsibility was to design a Google Cloud infrastructure for ELT data pipeline. That Google Cloud infrastructure runs the Airbyte (ELT Tool) system and fetches data from Spotify and writes those data to a data warehouse like BigQuery. After loading the data into a data warehouse, here comes my second responsibility. I had to design an automatic system to Transform the data as per customer requirements for Business Analytics and Machine Learning. Finally, I transformed the Google Cloud infrastructure into a Terraform code.

ABookStore.co.ke Github Repo

Tech Stack: NodeJs, MySQL, ReactJS, AWS S3, AWS EC2, AWS RDS, OAuth

Description: AbookStore is a Kenyan-based Online e-commerce platform that was built with ReactJS (Front-end) and NodeJs (Back-end). This application is deployed in an AWS environment and also used AWS resources like S3, EC2, RDS, etc. Finally, I transformed the AWS infrastructure into a Terraform code.

CarBangla (Ride Sharing App)

Home Page

Tech Stack: NodeJs, MySQL, ReactJS, AWS S3, AWS EC2, AWS RDS, OAuth

Description: I was a NodeJS developer there. I worked on back-end development in a Ride-Sharing app named Carbangla. I personally managed and developed 2-3 Mirco-Services which handled concurrent user requests. I also implemented MQTT-based pub/sub architecture to transfer data between the mobile client and server in real time. Also developed various APIs as per requirements, Firebase Cloud Messaging send to specific clients, Admin panel dashboard development (in PHP Laravel) and etc.

Korbyt in RMG Networks (Digital Signage Solution Provider)

Home Page

Tech Stack: Laravel, NodeJS, ElectronJS, Windows API, Windows Registry, C#.NET

Description: I worked as a backend and desktop app developer, contributing to two applications: Korbyt, a Digital Signage app built using ElectronJS, and InVIEW, a Real-Time Communication Portal app also based on ElectronJS. In Korbyt, my responsibilities included enabling the software to run digital content like videos, images, and animations downloaded from a remote server. Additionally, I created a Windows Installer for the Embedded Windows version, enabling automatic updates. I also worked on core Windows OS features like registry and low-level Windows APIs. Apart from that, I implemented new features for RMG's multi-tenanted SAAS software, developed using PHP Laravel and PostgreSQL.

EDUCATION

2008 - 2012 BSc. in EEE at American International University-Bangladesh

TRAINING

Google Cloud Associate Cloud Engineer — 2022

Training Conducted by: Poridhi.io

Docker Certificate & Kubernetes Certificate — 2022

Course Completed on: KodeKloud