Imrul Kais Khan

Full Stack Developer

Dhaka, Bangladesh

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SUMMARY

Full Stack Developer with approximately 5 years of experience 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, TypeScript, ExpressJS, NestJS, OAuth, Jest, Swagger, MQTT
Database Management	MySQL, PostgreSQL, SQLite, MongoDB, Redis
Frontend Development	SASS, CSS Module, ReactJS, VueJS, 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, Docker, Kubernetes, Nginx, Terraform, Github Actions, CI/CD Pipeline
Data Engineering	AirByte, ELT Data Pipeline, Python DBT Tool
Project Management	Agile Development, JIRA, Azure DevOps, Sprint Planning, Tasks, Git Commit, Design Documents

WORK EXPERIENCE

Senior Backend Engineer at MeldCx [Australia] [Liaison Office]   Aug 2022 - Jul 2023

- Designed and launched the mHotel application, streamlining hotel check-in/check-out processes by integrating with various Property Management Software (PMS).
- Implemented a self-check-in/check-out feature, reducing guest wait times and enhancing satisfaction.
- Standardized API response transformation, improving efficiency and consistency across different API interfaces.
- Enhanced transaction security by integrating payment systems with Shift4, ensuring encrypted credit card attachment to hotel reservations.
- Developed a robust payment processing library for the Frontend in JavaScript, adhering to SOLID principles and design patterns, enhancing payment reliability.

Intermediate Full-stack Engineer at Bitstrapped [Canada][Remote]   Dec 2021 - Jul 2022

- Provisioned Google Smart Factory 4.0 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.
- Conducted R&D on Airbyte ELT Tool, creating 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.
- Extracted Spotify data through API using Airbyte custom source and designed SQL queries using Python DBT Tool for data transformation in ELT process.

Full-Stack Developer at BrainStation-23 [Dhaka, Bangladesh]   May 2020 - Nov 2021

- Engineered a Fintech Application linking banks in the USA and Mexico.
- Translated Adobe XD & Figma designs into ReactJS frontend interfaces.
- Documented all APIs using Swagger and wrote Unit Tests and Integration Tests.
- Assisted in project management and mentored junior engineers.

Software Engineering Manager at Civilized Technologies [Dhaka, Bangladesh]   Sep 2019 - Mar 2020
- Led the development team of 5 people and oversaw the entire development process of an eCommerce application from scratch.
- Designed the database schema, integrated PayPal payment, Email Confirmation, OAuth, and more.
- Developed Frontend with ReactJS & Redux, enabled PWA capabilities with Service Worker, and configured Nginx for both ReactJS and NodeJS App.
- Architected AWS Infrastructure and implemented CI/CD with Github Actions.
- Converted AWS Infrastructure to Terraform code for seamless deployment.

Node.js Developer at CarBangla(Ride Sharing App) [Dhaka, Bangladesh]   Nov 2018 - Sep 2019
- Developed ride-sharing app backend from the ground up, architecting AWS Infrastructure for smooth operation.
- Designed database schema, optimized queries, and implemented mobile-friendly RESTFul API.
- Implemented Geospatial search and query through MongoDB and real-time driver tracking using MQTT.
- Configured various AWS services like RDS, S3, EC2, and transitioned from monolithic to Micro-Service based system.
- Tuned the AWS Infrastructure to handle 100,000 requests per day.
- Developed Admin Panel features in Laravel for Ride Sharing Business operations.

Node.js Developer at Korbyt (Digital Signage) [USA]   Feb 2018 - Oct 2018
- Developed a Digital Signage app using ElectronJS for Embedded Windows Machines.
- Added features for rendering animations, playing Ads, videos, and slideshows on schedule.
- 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.
- Contributed to RMG's multi-tenanted SAAS software developed using Laravel & PostgreSQL.

PROJECTS

AirByte ETL data pipeline from Spotify to Monstercat   Client - Monstercat

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

Description: Developed a high-performance ETL data pipeline on Google Cloud using Airbyte to extract data from Spotify into BigQuery. Engineered data transformation for Business Analytics and Machine Learning requirements. Translated the entire infrastructure to Terraform for improved scalability.

ABookStore.co.ke   Github

Tech Stack: Node.js, React.js, MySQL, OAuth, AWS, Terraform

Description: Architected "AbookStore," a Kenyan e-commerce platform, using ReactJS (front-end) and NodeJs (back-end). Deployed and optimized on AWS using services like S3, EC2, and RDS. Converted the AWS setup into Terraform code to boost deployability and scalability.

CarBangla (Ride sharing App)   Playstore

Tech Stack: Node.js, TypeScript, MySQL, MongoDB, Laravel, AWS, Terraform

Description: Managed and developed Micro-Services, implemented MQTT-based pub/sub architecture and developed various APIs, admin panel dashboard, and more.

EDUCATION

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