

# Foyzul Karim

Melbourne, Australia  
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Senior full-stack engineer specializing in scalable, high-performance web systems and AI integrations using Node.js, React, and cloud-native architectures (AWS & Azure).

## OPEN SOURCE WORKS

- **PlayWithLLM (AI/MLOps Platform)**: An open-source platform designed to manage the operational lifecycle of Large Language Models (LLMs), featuring robust API design, cost tracking, and performance monitoring. [[Link](#)]
- **Hikma Engine (TypeScript)**: A code knowledge graph indexer that transforms Git repositories into searchable knowledge stores, enabling AI agents to perform advanced code comprehension and analysis. [[Link](#)]
- **IP Camera browser client (JavaScript)**: Watch IP camera feed from browser using Node and React FC. [[Link](#)]
- **Terminal in browser (TypeScript)**: Execute OS terminal commands from browser using Express & React FC. [[Link](#)]

## WORK EXPERIENCE

### MENTORLOOP, Melbourne, Australia — Senior Software Engineer

NOVEMBER 2021 – Present

- **Architected and delivered the "System of Records" (SoR) feature**, enabling seamless, no-code integration with external CRMs using a dynamic OpenAPI/Swagger-based architecture, dramatically accelerating customer onboarding.
- **Designed and implemented a scalable, in-house queue system on the Meteor.js pub/sub architecture** to offload long-running processes, significantly boosting the main application's scalability and throughput.
- **Led the re-architecture of the integration test suite, reducing execution time by 57% (from ~30 mins to ~13 mins)** by introducing mocks and fixing flaky tests, thereby improving CI/CD pipeline speed and reliability.
- **Engineered a unified authentication handler for legacy SAML and OIDC systems**, implementing dynamic claims processing to streamline and secure the SSO login experience across diverse clients.
- Optimized application performance by leading a database enhancement initiative; **reduced MongoDB load by over 50%** through strategic indexing and query refactoring.
- **Drove AI initiatives within the company**, leading a project that won the company-wide hackathon for innovation in 2023, with several ideas now implemented in the production environment.

### SEEK Asia, Kuala Lumpur, Malaysia— Senior Software Engineer

DECEMBER 2020 – NOVEMBER 2021

- **Led the migration of a high-traffic, legacy Angular 1.x job creation platform to a modern React Functional Component architecture**, serving over 100,000 hirers across four countries.
- **Developed GraphQL service** for job creation flow which is used by the hirers to save and publish 1000+ of jobs each day.

## SKILLS

### Language

JavaScript (10+ years)  
TypeScript (5+ years)  
C# (10+ years)

### Framework

Node.js (8+ years)  
React.js (5+ years)  
ASP.NET Core (4+ years)

### Cloud

Microsoft Azure (3+ years)  
AWS (3+ years)

### Other Technologies

GraphQL, Docker, SQL Server,  
MongoDB, Redis, RabbitMQ

## PROFILES

GitHub – 500+ Stars [[Link](#)]  
LinkedIn [[Link](#)]  
YouTube – 20000+ subscribers [[Link](#)]  
Writing – [Medium](#), [SubStack](#)

## CERTIFICATION

AWS Certified Developer –  
Associate on June 08, 2023 [[Link](#)]  
AWS Certified Cloud Practitioner  
on September 09, 2022 [[Link](#)]  
Azure Developer Associate on  
August 1, 2020 [[Link](#)]

## EDUCATION

Rajshahi University of Engineering  
and Technology, Rajshahi,  
Bangladesh –  
BSc. in Computer Science &  
Engineering, 2009

- Actively contributing to requirement analysis, development and production deployment phases of a feature.
  - Participating in cross team collaboration / discussion to finalise schema definition used across multiple services and teams.
  - Regularly performing different technical spikes to make the systems better performant and manageable.
  - Lead a sub team to deliver new features on time by orchestrating sub-tasks and get them done timely by the team members.
  - Participate in week-long platform support in each month and respond or troubleshoot if necessary.

**Nintex, Kuala Lumpur, Malaysia— Software Developer**

FEBRUARY 2019 – NOVEMBER 2020

- Core member of the team and created multiple connectors (SharePoint, Microsoft Teams, Adobe sign, DocuSign) using React, Node and Azure functions (C#).
- Created react based UI components which are now used in Nintex workflow cloud and being used by 1000+ companies.
- Acted as feature lead, meaning, lead the team in each step from assessing the idea to production deployment and delivering high quality product on time to meet the commitment.

**Invento Bangladesh, Dhaka, Bangladesh— Senior Software Engineer**

JANUARY 2018 - JANUARY 2019

- Led a team to develop and deploy an E-Commerce focused mini-ERP system using ASP.NET Web API, Node.js and TypeScript based Angular.js.
- Built reusable component libraries (Authentication, Authorization, Permission control, Data Table etc.) using TypeScript, JavaScript and C# so that these can be used in multiple different services and projects.
- Implemented offline-online sync mechanism from scratch for high-data volume distributed systems used in multiple branches of different shops.
- Implemented complex duplex sync mechanism between mini-ERP and WooCommerce website using Azure Function (C# and JavaScript) and Azure Storage Queue.
- Designed a reporting system to handle 100GB+ data.

**Cefalo Bangladesh Ltd., Dhaka, Bangladesh— Senior Software Engineer**

JULY 2016 - JANUARY 2018

- Developed Single Page Application for Schneider Electric (Canada) to receive and handle data coming from IoT devices for scheduling predictive maintenance using Angular 1.x, ASP.NET Web API, SQL Server, ElasticSearch and CouchDB.
- Developed backend API for Spenn mobile app to handle money transfers between customers using ASP.NET Web API, SQL Server, ElasticSearch and ANX International's blockchain.

**Invento Bangladesh, Dhaka, Bangladesh— Software Engineer**

MAY 2015 - JUNE 2016

- Optimized an existing system of a government organization to handle 6000+ concurrent users using ASP.NET Web API, SQL Server and hosted in Amazon Web Service.
- Customized the existing Single Page Application inventory system using Angular 1.x and ASP.NET Web API to support different customers.

**Secure Link Services BD Ltd**, Dhaka, Bangladesh— *Software Engineer*

APRIL 2012 - APRIL 2015

- Worked as a full-stack developer (ASP.NET Web API and Angular 1.x) in multiple projects for different clients in Europe.
- Developed no-buffer video clip sharing Single-Page-Application (Goldfish) by using HTML5 Canvas elements, C# and JavaScript.
- Developed a parking problem solution SPA (Parquery) using C#, JavaScript, HTML5 Geolocation API and Google Maps API.

**The Databiz Software Limited**, Dhaka, Bangladesh— *Software Engineer*

MARCH 2010 - MARCH 2012

- Core member of the .NET Team and delivered high quality features in different projects in a timely manner.
- Developed a food-delivery system for a UK client using ASP.NET Web API, jQuery, Google Maps and HTML5 Geolocation API.
- Created a mobile app and corresponding backend system to find nearby ATMs (ATM Explorer) using Apache Cordova, ASP.NET Web API and SQL Server.