

# Mohammad Rakibul Hassan

## Senior Software Engineer / Tech Lead

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## SUMMARY

I'm a hands-on, backend-focused full-stack Software Engineer and Tech Lead with a Computer Science degree and deep experience delivering scalable solutions in e-commerce, SaaS, and enterprise environments. As a Senior Software Engineering Consultant at Crosstide, I've led service delivery and solution architecture across multiple client engagements, combining technical execution with clear communication and risk management to ensure project success. I specialise in Node.js, TypeScript, Python, and cloud-native systems, with a strong foundation in Infrastructure as Code, CI/CD, and AI/ML integration. Previously, as Tech Lead at Friisbee, I built distributed systems, implemented IaC, and led Agile teams across time zones. I thrive at the intersection of engineering leadership, technical problem-solving, and product-driven development—and I'm passionate about creating impactful solutions while mentoring teams and collaborating with clients.

## TOP SKILLS

### Backend

- Node.js
- Python
- PHP

### Frontend

- React.js
- Vue.js
- Nuxt.js / Next.js

### DevOps

- CD/CI
- AWS
- CDK/ Terraform

### Architecture

- Data Structure
- Algorithms
- OOP Design Patterns

## CERTIFICATION

[AWS Certified Solutions Architect – Associate](#)

## EXPERIENCES

### Crosstide (formerly 101ways) , Hybrid — Senior Technology Consultant

May 2023 - Present

**Node.js | Next.js | React | Python | Postgres SQL | TDD | AI/ML | CD/CI | Architecture**

- Spearheaded service delivery initiatives at Crosstide, ensuring timely and quality project execution.
- Cultivated strong client relationships, enhancing trust through transparent communication and understanding client dynamics.
- Leveraged expertise to simplify product design and implementation, aligning team efforts with strategic objectives.
- Led technical interviews and recruitment processes to build skilled development teams for client engagements
- Delivered core components for a major corporate client, resulting in significant success across key product categories
- Mentored and guided cross-functional teams, fostering collaboration and alignment with strategic objectives
- Initiated and led an internal training program to upskill consultants on modern AI tools during a period of team and client transition
- Developed and fine-tuned an in-house LLM project leveraging internal datasets to explore generative AI use cases and improve internal tooling

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- Client Engagements - [Recharge](#), [Marks and Spencers](#)

### **Friisbee, Hybrid — Tech Lead (Contract)**

May 2022 - May 2023

**Node.js | Next.js | React | Python | Postgres SQL | TDD | Snowflake | AWS | Serverless | Data pipeline | Architecture**

- Established MVP goals and designed system architecture to streamline project development.
- Adopted a Hybrid software architecture with serverless models deployed to AWS Lambda
- Implemented Infrastructure as Code using Terraform, enhancing deployment efficiency.
- Constructed a robust data pipeline between Fivetran and Snowflake, utilising Dbt for data transformation.
- Led agile scrum processes for remote teams, fostering collaboration and productivity.
- Recruited and coached engineers to form a new team

### **Dunelm ( [dunelm.com](#) ), Hybrid — Software Engineer**

Sept 2021 - Oct 2022

**Node.js | React | AWS | AWS CDK | IAC | Serverless | System Architecture**

- Spearheaded the migration to AWS CDK, enhancing team efficiency and project scalability.
- Designed & developed microservices in the serverless model using mono-repo strategies
- Executed end-to-end testing (Unit & Integration) and implemented TDD/CD/CI in Gitlab
- Designed system architecture of an innovative greenfield project
- Automated manual processes with AWS step functions, minimising admin efforts
- Mentored junior developers, fostering a collaborative and growth-oriented environment.
- Deployed to AWS using services, S3, Lambda, StepFunction, APIGateway, S3, SQS, Eventbridge

### **CheckATrade ( [checkatrade.com](#) ), Remote — Software Engineer**

July 2020 - July 2021

**Node.js | React Native | AWS | IAC | CD/CI | Serverless Architecture**

- Orchestrated migration from REST to event-driven technology (AWS EventBridge)
- Implemented serverless microservices with automated testing (jest, sinon/TDD and CI/CD)
- Analysed existing MVP app for tech debt optimisation in React Native
- Streamlined manual operations with the legacy system to reduce admin tie-ups
- Mentored new hires and junior developers on dev procedures
- Deployed to AWS CloudFormation, DynamoDB, SQS, and EventBridge in a DevOps role.

### **HEXR ( [hexr.com](#) ), Primrose Hill — Full Stack Software Engineer**

August 2019 - June 2020

**Node.js | Vue.js | AWS | CD/CI | Python | TDD | 3d modeling**

- Reengineered data architecture and database entity relationships to optimise performance (Postgres)
- Crafted system architecture for a hybrid service/microservice environment, enabling DevOps automation and improved reliability
- Implemented unit tests and CD/CI processes across backend services (traditional & serverless) on cloud infrastructure
- Developed a scalable GPU server framework leveraging serverless technologies

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## Callaly ( [calla.ly](http://calla.ly) ), West Hampstead — *Full Stack Software Engineer*

May 2018 - July 2019

*Python* | *AWS*

- Architected custom subscription commerce platform utilising Python Django & JavaScript
- Deployed AWS Lamda Serverless microservices for scalability

## EDUCATION

### International Islamic University Chittagong - BSc in Computer Science & Engineering

September 2009 - September 2013

Key Courses: AI, Pattern Recognition and Image Processing, Algorithms, Distributed Database

Activities and Society:

- Mentored junior programmers to get traction in competitive programming.
- Member of the leading programming team in the university, which participated in numerous national and regional programming contests
- Elected general secretary of the Computer Club, which arranges coding boot camps for new coders and IT festivals.

### Queen Mary University of London - MSc in Computer Vision (unfinished)

September 2014 - February 2015

Courses: Machine Learning, Emerging Topics in Computer Vision