Rafidul Islam

Backend Engineer | Dhaka, Bangladesh

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SKILLS

Programming Languages: JavaScript, Java, Python, HTML, CSS, TypeScript
Frameworks / Libraries: Node.js, Express.js, Mongoose.js, Django, Bootstrap, Jest, Zod
Tools: Git, Docker, Linux, MongoDB, SQL, Redis, Elasticsearch, AWS S3, OpenAI, Metabase

WORK EXPERIENCE

Airwork AI
Backend Engineer   Aug 2022 - Present

- Designed, implemented and maintained the core REST API used for the platform
- Implemented role based access control, secure input validation and error logging for monitoring
- Built the assessment engine used to assess users using MCQ examinations and coding tests taken on the platform using self-hosted open source code compilation systems
- Integrated AI features such as auto profile completion from a parsed resume, generating MCQ assessment questions, grading coding test answers based on best practices and code quality etc.
- Documented API endpoints using Swagger tools and built automatic internal documentation pages for testing endpoints
- Utilized Elasticsearch to implement a comprehensive search functionality with multiple layers of filters and pagination
- Guided a small team of campus ambassadors to design and write unit tests for smaller APIs in Jest and TypeScript
- Built an AI shortlister to shortlist candidates for clients using AI and RAG features that uses Elasticsearch for vector search
- Made custom payment flow using Stripe for clients to post jobs, with support for coupons set by admins
- Implemented SMS verification using Twilio and cheaper custom solutions for local phone numbers
- Setup email services using Sendgrid with templates

bKash
Product & Technology Intern   Jun 2022 – Jul 2022

- Worked with basic Spring Boot to develop small mock REST APIs

EDUCATION

BRAC University
Bachelor of Science in Computer Science   Jan 2019 - May 2022
CGPA: 3.92/4.00

Sunnydale School
CAIE A Levels (3 As)   Jun 2018
CAIE O Levels (4 A*, 3 As)   Jun 2016

PROJECTS

mongoose-footprints (Node.js library)
Author and maintainer of this NPM package, which is a plugin for the library 'mongoose' that logs and tracks changes made to documents in MongoDB by utilizing middleware over CRUD operations to facilitate the creation of audit logs.

Tamashi (Discord bot)
A Discord bot that can sync with what a user is listening to on their Spotify and play it back in a voice channel for everyone to tune in and listen along live. It also supports playing songs manually using URLs/titles from YouTube, Spotify, Deezer, Apple Music.

ADDITIONAL

Languages: English (Fluent), Bangla (Fluent)
Awards: 1st Runner Up at BRACU Intra University Programming Contest (Fall 2019) as a team of 3 members
Publications: Multimodal Emotion Recognition Using Heterogeneous Ensemble Techniques