Muhammad Imam Hasan
Full Stack Developer

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Skills

- Python | JavaScript | Django | Django-rest-framework | Next.js | Vue.js
- SQL | PostgreSQL | No-SQL | DynamoDB | MongoDB
- AWS | Certified Solution Architect | AWS Serverless | Docker

Work Experience

Brain Station-23
Dhaka, Bangladesh
Software Engineer Trainee → Associate Software Engineer → Software Engineer → Senior Software Engineer
June 2021 – Present (3 years, 10 months)

Senior Software Engineer   **January 2025 - Present**

- Leading a team of 4 backend engineers in developing a vendor management e-commerce platform using Django, driving architectural decisions and ensuring scalable, efficient solutions for multi-vendor operations.

Software Engineer   **July 2023 - December 2024**

- Developed an automated system for synchronizing data of 4,000 trips across three tables using Python and MongoDB aggregation pipeline for a B2B SaaS platform that serves bus companies in Norway.
- Worked as a fullstack developer in an IOT device management portal which is built on Vue.js in the frontend and AWS Serverless Technology to support it's backend.
- Implemented retry mechanism for handling multiple interdependent API calls that involve multiple services, allowing sufficient time for necessary information updates in the database.

Associate Software Engineer   **October 2021 - June 2023**

- Designed and developed a video streaming platform using Next.js and Django for a Norwegian Film Festival that entertained 1000+ users, streamed 60000+ hours of video content during their June 2022 and June 2023 festival.
- Optimized data fetching by designing a database schema that leverages DynamoDB streams to transform client data from the original table into the designated table. This approach significantly reduces data fetching latency, improving performance by 5 times.
- Created event-specific rules in EventBridge to selectively trigger only relevant Lambda functions, leading to a 9 times reduction in the number of function invocations.
- Reduced API response latency by 20 times by query optimization and removing overfetching of the data.

Software Engineer Trainee   **June 2021 - September 2021**

- Developed UI of a management portal for a Norwegian data preservation solution company using Vue 3.
- Collaborated with the back-end team to integrate REST APIs, Optimized API calls using Vuex to cache data and reduce redundant requests.

Education and Certifications

- AWS Certified Solution Architect- Associate   **May 2024**
- **B.Sc. in Mathematics,** Shahjalal University of Science and Technology, Bangladesh   **2016 - 2020**