

# ANAMUL HAQUE

## Software Engineer (Backend)

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### EXPERIENCE

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#### Software Engineer

FusionPulseTech It Solutions

Jul 2024 - Present

*Dhaka, Bangladesh*

- **AI Agent for Differential Diagnosis:** Designed an AI-driven system that analyzes patient symptoms, medical history, and lab reports to provide possible differential diagnoses, assisting doctors in clinical decision-making.
- **LLM-Based OCR for Food Recognition:** Developed system that extracts food items from images and provides their nutritional values, enhancing dietary analysis and food tracking.
- **AI-Powered Content Generation:** Created a content generation system that produces engaging text, images, and hashtags tailored for marketing campaigns, optimizing audience engagement and brand visibility.
- **Conducted security audit** using OWASP guidelines, identifying vulnerabilities and ensuring adherence to secure coding best practices to mitigate risks.
- **Implemented server-side notification system** to enhance real-time communication and user engagement.
- **Integrated SSLCOMMERZ** for secure and efficient online payment processing
- **Designed and implemented RESTful APIs** for E-Commerce, managing products inventory, categories, wishlists, carts, and orders, offer, products search.
- **Implemented centralized logging** and developed a custom base entity to enforce common properties across the system.
- **Created a pipe** to set metadata on request bodies for POST and PATCH methods, ensuring consistent data management.
- **Set up and optimized GitHub Actions workflows** for continuous integration and deployment.

**Tech stack:** LangGraph, AWS Bedrock, NestJS, PostgreSQL, JWT, OAuth, AWS, Github Actions, Docker, Docker Compose

#### Software Engineer

Arcgen Consulting Co

Nov 2022 - Jun 2024

*Hyderabad, India*

- **Implemented Role-Based Access Control (RBAC)** to enhance system security.
- **Developed APIs** for patient care management, including vitals monitoring and diet plan management.
- **Created APIs** for healthcare provider operations, including appointment scheduling and earnings tracking.
- **Engineered a secure file upload API** for seamless document sharing.
- **Integrated third-party APIs** for real-time patient vitals monitoring.
- **Implemented Google Health and Apple Health integrations.**
- **Developed an AI-powered chatbot** using Azure OpenAI to automate routine patient inquiries.

**Tech stack:** Java, Spring Boot, PostgreSQL, JPA, Hibernate, Nginx, Tomcat, Azure

#### Software Engineer

Mangrove System Bangladesh

Oct 2021 - Nov 2022

*Mirpur DOHS, Dhaka, Bangladesh*

- **Integrated Spring Boot** mail and Twilio services.
- **Configured VLAN, STP, NAT, ACL, IPsec** (AWS to on-premise), unprivileged LXC, LDAP, Letsencrypt SSL.
- **Developed server monitoring tool.**

**Tech stack:** Java, Spring Boot, SSL, Linux, Python, Nginx, Networking, IPsec

**EDUCATION**

<b>Bachelor of Information and Communication Technology</b> Islamic University, Bangladesh-7003	2014 - 2020
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**SKILLS**

<b>Programming Languages and Principles</b>	Java, Typescript, Go, Python, OOP, SOLID, DRY, KISS, Functional Programming, AOP
<b>Databases and Tools</b>	PostgreSQL, MongoDB, Redis, Hibernate, TypeORM, Mongoose
<b>Frameworks</b>	Spring Boot, NestJS, ExpressJS
<b>DevOps Tools</b>	Docker, CI/CD (Github Actions)
<b>Cloud Platforms</b>	AWS, Heroku, Firebase
<b>AI Tools and Frameworks</b>	LangChain, LangGraph, AWS Bedrock, FAISS, OpenAI, Gemini, Curs
<b>Security Tools</b>	ZAP, Burp Suite, Cyber Fox, Havij, FUFF
<b>Other Tools</b>	Nginx, Letsencrypt, REST API, Git, Load Balancing
<b>Soft Skills</b>	Take ownership of assigned work, ability to work effectively in team

**LANGUAGE**

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| <ul style="list-style-type: none"><li>• Bengali</li></ul> | <ul style="list-style-type: none"><li>• English</li></ul> |
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**INTEREST**

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| <ul style="list-style-type: none"><li>• System design and architecture</li><li>• Microservices</li></ul> | <ul style="list-style-type: none"><li>• Cybersecurity</li></ul> |
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