

# Hasnain Iqbal

## SOFTWARE ENGINEER · BUILDER OF AUTOMATION SYSTEMS

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Software engineer and co-founder building software that replaces complex, manual operations. I architected and shipped the full-stack platform behind Factoryze Technologies from zero to production, and have led automation projects for departments at the University of Dhaka and other organisations in Bangladesh and abroad. I work end-to-end: requirements, architecture, backend, frontend, infrastructure, and delivery.

### CAPABILITIES

End-to-end product delivery · Full-stack architecture (React / Next.js, Node, Python) · Operations automation · Requirements engineering · CI/CD & test reliability · Technical leadership

## 01 Professional Experience

### Co-Founder & Full-Stack Software Engineer

2023 – Present · Dhaka

#### Factoryze Technologies Ltd.

- Co-founded the company and architected its technical foundation — a software-automation suite that helps organisations replace manual, repetitive operations.
- Designed and shipped the full-stack platform from zero to production, covering backend APIs, frontend, infrastructure, and client delivery.
- Built on React / Next.js, Node.js, Python, PostgreSQL, and Docker, with code review and CI/CD pipelines.
- Led an engineering team using agile delivery and owned client-facing automation projects for government and university clients.

### Software Automation Lead

2023 · University of Dhaka

#### Department of International Relations, University of Dhaka

- Led the design and delivery of an administrative automation system, digitising key departmental workflows end-to-end.

### Automation Workshop Facilitator

2026 · Govt. of Bangladesh

#### SICIP, Ministry of Finance

- Led an automation-focused workshop on Large Language Models for senior government officials, covering practical applications of automation in public-sector operations.

## 02 Selected Work

### EaseFluent

LLMS · NEXT.JS · NODE

An LLM-powered product that helps people improve their spoken English through an interactive storytelling system, applying language models to guided, conversational speaking practice.

## Department of International Relations — Operation Automation

PYTHON · JAVASCRIPT · REST API · POSTGRESQL

End-to-end automation of departmental operational workflows at the University of Dhaka, digitising key processes and reducing manual administrative overhead.

## University of Chittagong — Automation Requirement Specification

REQUIREMENTS ENGINEERING · SRS · UML

Contributed to the formal requirement specification for the large-scale digital automation of the University of Chittagong, applying structured requirements-engineering methods.

### 03 Technical Skills

<b>Languages</b>	Python, JavaScript (ES6+), TypeScript, SQL, Bash
<b>Frontend</b>	React, Next.js, HTML/CSS, Tailwind CSS
<b>Backend</b>	Node.js, Express, FastAPI, Django, REST APIs
<b>Databases</b>	PostgreSQL, MySQL, MongoDB, Redis
<b>Tools &amp; DevOps</b>	Git, Docker, Linux, GitHub Actions, CI/CD, Postman, Figma

#### EDUCATION

##### MSc, Software Engineering — 3.98 / 4.00

Institute of Information Technology, University of Dhaka · 2025

##### BSc, Software Engineering — 3.86 / 4.00

Institute of Information Technology, University of Dhaka · 2023

#### RECOGNITION

— Research Fellow, ICT Innovation Fund — ICT Division, Govt. of Bangladesh

— BSc Merit Scholarship, University of Dhaka

— HSC Board Scholarship, Jashore Education Board

Open to: consulting & engineering collaborations

hasnainiqbal.com · github.com/shirrsho