

# Sadman Sobhan

SENIOR SOFTWARE ENGINEER · SOFTWARE ARCHITECT ENTHUSIAST

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## Summary

Senior Software Engineer with 8+ years of experience specializing in backend development, infrastructure automation, and scalable system design. Strong expertise in Java, Spring Boot, NestJS, and PostgreSQL, with hands-on experience in Docker, CI/CD pipelines, and multi-tenant architectures. Passionate about problem-solving, performance optimization, and system reliability, with a proven ability to mentor teams, lead technical decisions, and deliver enterprise-grade solutions. Always eager to explore new technologies and approaches to build efficient and reliable software systems.

## Technical Skills

<b>Back-end</b>	Java, Spring Boot, Hibernate, Microservices, REST, GraphQL, NestJS, TypeScript
<b>DevOps</b>	Docker, Kubernetes, GitHub Actions, GCP, AWS (basics), CI/CD pipelines
<b>Database</b>	PostgreSQL, MySQL, Redis, Liquibase
<b>Tools</b>	Keycloak, MinIO, Maven, IntelliJ, Agile/Scrum
<b>Interests</b>	SRE, Cyber Security, Scalable System Design

## Professional Experience

### Penta Global Ltd.

Dhaka, Bangladesh

LEAD SOFTWARE ENGINEER

Aug. 2023 - Present

- Led the development of an Election Management System from scratch using Java, Spring Boot, Keycloak, microservices architecture, and integrated payment gateway.
- Designed and launched an online nomination system that enabled candidates to submit nominations digitally, achieving 100% user adoption.
- Optimized database queries and introduced separate read-write databases for high performance, improving response times and reducing manual paperwork by 50%.
- Engineered and enforced an approval workflow for election results, ensuring transparency, accountability, and compliance throughout the electoral process.
- Facilitated client meetings, gathered and analyzed requirements, and effectively communicated project updates, progress, and challenges to stakeholders and senior management.

### Dynamic Solution Innovators.

Dhaka, Bangladesh

SOFTWARE ENGINEER

Jan. 2022 - Jul. 2023

- Led the development of an Exam Management System using Java, Spring Boot, PostgreSQL, Flutter, and Crystal Reports.
- Delivered a real-time dashboard for administrators, improving data visibility and decision-making, which increased system usage and user satisfaction by 40%.
- Increased system efficiency by implementing caching techniques with Redis, reducing response time by 30% and enhancing overall user experience.
- Successfully deployed the system, now actively used by over 2,500 administrators, 1,000 exam invigilators, and 1,000 examinees.
- Registered and managed online payments for nearly 30,000 students, streamlining the payment process and ensuring operational efficiency.

### Dohatec New Media

Dhaka, Bangladesh

SOFTWARE ENGINEER

Oct. 2016 - Dec. 2011

- Developed and deployed a mobile application for the Procurement System, enhancing accessibility and driving a 15% increase in user adoption.
- Optimized database queries, improving system performance by 25% and delivering faster response times for users.
- Reduced system downtime by 30% through proactive resolution of critical bugs and issues, resulting in higher user satisfaction and productivity.
- Implemented digital signing tools and integrated with third-party applications, streamlining document authentication and improving workflow efficiency.
- Led a cross-functional team of developers and QA engineers, fostering collaboration and delivering high-quality releases on schedule.

## Education

### Khulna University

Khulna, Bangladesh

B.SC. IN COMPUTER SCIENCE AND ENGINEERING

Jun. 2011 - Jul. 2016

- Actively participated in various programming contests, demonstrating problem-solving and coding skills.
- Contributed to organizing multiple conferences, gaining experience in event management and teamwork.

## Project Showcase

## Open Care

<https://opencarebd.com>

LEAD DEVELOPER FOR OPEN CARE – SCALABLE HEALTHCARE PLATFORM

2024 – Present

- Architected and deployed a multi-tenant system supporting patients, doctors, and hospitals, ensuring secure data isolation and scalability.
- Built role-based dashboards and a dynamic advertisement platform, enhancing user engagement and creating new monetization streams.
- Automated CI/CD pipelines with GitHub Actions and Docker, cutting deployment time by 60% and improving release consistency.
- Technologies Used: Spring Boot, PostgreSQL, Redis, Keycloak, Docker, GitHub Actions, Next.js, React.

## Election Management System

Penta Global Ltd

LEAD DEVELOPER FOR ELECTION MANAGEMENT SYSTEM

2023 – 2024

- Led the development of an Election Management System from scratch using Java, Spring Boot, Keycloak, microservices architecture, and integrated payment gateway.
- Designed and launched an online nomination system that enabled candidates to submit nominations digitally, achieving 100% user adoption.
- Optimized database queries and introduced separate read-write databases for high performance, improving response times and reducing manual paperwork by 50%.
- Developed and enforced an approval workflow for election results, ensuring transparency, accountability, and compliance throughout the electoral process.
- Facilitated client meetings, gathered and analyzed requirements, and effectively communicated project updates, progress, and challenges to stakeholders and senior management.
- Technologies Used: Java, Spring Boot, Keycloak, PostgreSQL, Redis, Microservices, REST API.

## Exam Management System

Dynamic Solution Innovators

LEAD DEVELOPER FOR EXAM MANAGEMENT SYSTEM

2022 – 2023

- Built real-time dashboards and implemented Redis caching, improving response times by 30-40%.
- Managed online payments for 30,000 students, streamlining operations.
- Technologies Used: Java, Spring Boot, PostgreSQL, Flutter, Crystal Reports.

## Nepal E-Government Procurement (e-GP)

Dohatec New Media

SOFTWARE DEVELOPER

Jun 2018 – Dec 2021

- Contributed to the development of Nepal Government's official electronic procurement platform in collaboration with DG Market and Dohatec New Media.
- Developed and optimized procurement workflows, enhancing system usability and transparency for government stakeholders.
- Integrated digital signing tools and third-party applications to enable secure and paperless procurement processes.
- Improved query performance and resolved critical issues, increasing system stability and user satisfaction.
- Technologies Used: Java, Struts, PostgreSQL, Jasper Reports, JavaScript, jQuery.