

# NIAZ BIN SIRAJ

Backend-focused Software Engineer with expertise in Java, Spring, SQL performance optimization, and API integration, delivering scalable and high performance solutions in healthcare technology.

Dhaka, Bangladesh

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## SKILLS

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- **Languages:** Java, Javascript, Typescript, Python
- **Frameworks & Libraries:** Spring Boot, Express.js, Flask, React
- **Databases & ORM:** Oracle, MySQL, PostgreSQL, MyBatis, Hibernate, TypeORM
- **Tools & Technologies:** Kafka, Hazelcast, CI/CD, Docker, Kubernetes, Jenkins, Git
- **AI Tools:** Github Copilot, Gemini CLI, Google Stitch, NotebookLM
- **Testing:** Junit, TestNG, Selenium, Postman, Jest

## WORK EXPERIENCE

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### Software Engineer II

Dhaka, Bangladesh

#### Therap (BD) Ltd.

Jun 2022 – Present

- Designed and implemented a history-based Aging Report Generation System using Java, Spring, MyBatis, and Oracle, improving A/R balance **accuracy by 35%+ for 30,000+** healthcare providers.
- Led development of the Nebraska State Integration Billing Flow from scratch, enabling compliance with state-specific regulations and supporting **100% accurate claim submissions**.
- Built and deployed RESTful APIs with Spring Web and Spring Data JDBC to integrate external applications, reducing manual work and improving **billing workflow efficiency by 30%**.
- Optimized complex SQL queries, achieving a **50–60% reduction in execution time**, significantly enhancing system responsiveness for billing operations.
- Refactored legacy codebases to leverage modern Java features (streams, optionals, lambdas), improving code maintainability and **reducing defects by 15%**.
- Supported onsite alpha deployments in QA environments, collaborating with U.S. stakeholders to ensure smooth rollouts and **reducing post-deployment issues by 35%**.
- Mentored **5+ junior engineers**, conducting code reviews and knowledge-sharing sessions, increasing team productivity and **reducing onboarding time by 20%**.

## EDUCATION

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### B.Sc. in Computer Science and Engineering

Rajshahi, Bangladesh

#### University of Rajshahi

January 2017 - March 2022

CGPA: 3.3/4.0

Relevant Coursework: Data Structures, Algorithm Design, Operating Systems, Database Systems, Networking, Artificial Intelligence, System Design, Software Development, Software Architecture, etc.

## UNIVERSITY PROJECTS

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### Intelligent Personal Assistant Robot

March 2022

- Designed the system architecture and developed a maze exploration algorithm using Python and Flask.
- Created a simulation for navigation using C# and the Unity Game Engine.
- Used a backtracking technique optimized with dynamic programming for maze exploration.

## ACHIEVEMENTS AND CERTIFICATIONS

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- **Champion, National Round - Children Science Congress 2014:** Awarded first place in the Research Paper Presentation.
- **Certificate of Appreciation - The American Center, U.S. Embassy Dhaka 2020:** Recognized for facilitating a workshop on Game Development using Unity 3D Game Engine.

## PROGRAMMING COMPETITIONS

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- Ranked in multiple national and international programming contests, including ACM ICPC (2019–2021), Google Code Jam 2020, and SRBD Coding Contest 2018.