# Saad Islam Omy

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## CAREER SUMMARY

Highly motivated **Software Engineer** and **Competitive Programmer** with strong expertise in **backend development, system design, and database management**. Skilled in **problem-solving, algorithms, and data structures**, with a proven ability to design and deliver **scalable, secure, and efficient software solutions**. Experienced in building and integrating **RESTful APIs, distributed systems, and cloud-based applications**. Passionate about leveraging technology to solve real-world problems, continuously learning new tools and frameworks, and contributing to high-impact projects in dynamic, growth-oriented environments.

## EXPERIENCE

### CODE PROPHET | Backend Developer

september 2024 -
- Built and maintained **5+ backend services** using **Spring Boot** with PostgreSQL/MySQL databases
- Designed and deployed RESTful APIs, reducing API response time by **30%** through query optimization and caching.
- Contributed to performance tuning and efficient query optimization
- Collaborated with frontend developers to deliver full-stack solutions
- Involved in writing unit tests and documenting backend components

## ACHIEVEMENTS

- Achieved **Expert** rating (**1787**) on **Codeforces**, solving over **3000+ problems** across multiple online judges.
- ranked **31st worldwide** in **Codeforces round 1047**.
- ranked **74 worldwide** in **Codeforces round 1049(div 2)**.
- ranked **3rd nationally** in **Atcoder round 205 (div 2)**.
- Consistently enhanced algorithmic and problem-solving skills through active participation in competitive programming contests.

## PROJECTS

### UNIVERSITY AUTOMATION SYSTEM

- Developed a backend system to automate university operations such as student registration, course management, and result processing
- Focused on clean API design, database efficiency, and security
- Integrated role-based access control for administrators and students

### PAYROLL SYSTEM – SPRING BOOT, POSTGRESQL, JWT AUTHENTICATION

- Automated salary processing with support for bonuses, deductions, and role-based salary structures.
- Reduced manual calculation errors by **90%** with automated payroll generation.
- Integrated **JWT-based authentication** for secure access

## EDUCATION

**NORTH WESTERN UNIVERSITY**
Bachelor of Science in Computer Science

## SKILLS

**LANGUAGES**
Java • Python • C++

**FRAMEWORKS & TOOLS**
Spring Boot • Hibernate • JUnit • REST APIs • Django

**DATABASES**
PostgreSQL • MySQL

**DEVOPS & TOOLS**
Git • GitHub • Linux • UNIX • Docker

**CLOUD**
AWS (basic) • CI/CD (familiar)

**PROBLEM-SOLVING**
Algorithms • Data Structures • Competitive Programming

## PROBLEM SOLVING

Codeforces – Regular participant with passion for algorithmic problem solving

Competitive Programming – Strong problem-solving mindset developed through regular practice and contests

## CERTIFICATIONS

Participation in national and online competitive programming contests

## LINKS

Github://
**https://github.com/Saad7890-web**
Codeforces://
**https://codeforces.com/profile/saadislam**