

# Sk Md Rizwan

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## Skills

**Languages:** Go (Golang), Java, JavaScript (Node.js, React), Python, C/C++, SQL, PHP

**Technologies & Tools:** Docker, Gin, Spring Boot, Express.js, AWS, GCP, REST APIs, Git/GitHub, Linux

**Soft Skills:** Analytical thinking, problem solving & debugging, effective verbal/written communication, fast learner, adaptable in fast-paced environments.

## Professional Experience

**Eastern Railways - IT Intern**

May 2025 - June 2025

- Developed a full-stack cross-platform Help-desk Management System using PHP, MySQL, and JavaScript with dynamic, role-based workflows for efficient ticket lifecycle management across employees, supervisors, and administrators.
- Implemented unit and integration tests using PHPUnit and JavaScript testing libraries to validate business logic and ensure system reliability, improving overall code stability and reducing post-deployment issues within an Agile SDLC environment.

**Code Social - Technical Lead**

August 2023 - May 2025

- Mentored 40+ contributors and reviewed 50+ pull requests in an open-source program (GSSoC 2024), providing code reviews, feature planning, test coverage, and Git/GitHub Action workflows and CI/CD pipelines.
- Led all technical initiatives including architecture design, official website maintenance, and system enhancements to ensure scalability, security, and performance across open-source projects, contributing to effective defect resolution and continuous improvement.

**Timechain Labs - Intern**

May 2023 - August 2023

- Worked on the Bridge Token Project under the Timechain Summer of Code (TSOC) initiative. Contributed to the development and enhancement of blockchain-based token bridging mechanisms.
- Developed and tested blockchain interoperability mechanisms using Solidity and Hardhat.
- Built front-end interfaces with React.js and integrated smart contracts using ethers.js.
- Designed system flow with Mermaid.js and supported smart contract deployment for a two-way peg system between BSV and Bitcoin blockchains.

## Education

**Heritage Institute Of Technology(Kolkata)**

July 2022 - July 2026

B.Tech in Electronics and Communications Engineering (with Honours)

**GPA(last year): 8.5/10**

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Database Management, Information Retrieval, Image Processing

## Projects

- **Dynamic CMS in Golang** - Developed a modular Content Management System using Golang (Gin framework), PostgreSQL, and JWT-based auth. Implemented RESTful APIs for content CRUD, role-based access control, and scalable architecture with clean MVC separation. This system leverages reflection to handle dynamic content types and metaprogramming to generate API routes dynamically.
- **cses-github-extension** - Developed a Chrome extension that automatically syncs solved problems from the CSES Problem Set to GitHub using Javascript, GitHub API and Chrome Storage. Enabled version control and portfolio visibility for competitive programming solutions. Utilized JavaScript DOM manipulation and browser storage to detect problem completion and trigger automated commit actions. Designed a lightweight UI to authenticate with GitHub and configure repositories seamlessly.
- **GitHub Contribution Tracker** - Developed a containerized backend service using Docker that tracks merged PRs across GitHub repos and generates a real-time leaderboard. Built RESTful APIs for event setup and leaderboard access. Integrated GitHub Webhooks for automated scoring. Deployed on Railway with cron-based keep-alive, ensuring scalable and reliable performance.

## Awards and Certificates

- Amazon Junior Software Developer Professional Certificate - Coursera (2025)
- Github Foundations and Advanced Security Certified (2025)
- IBM Data Science Certified - Coursera (2024)
- John Hopkins University - Data Science Certified - Coursera (2025)
- Machine Learning and Deep Learning Specialization from Stanford University on Coursera (2025)