

Soumya Deep Sarkar

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Bachelor of Technology

Information Technology (CSE Department)

Birla Institute Of Technology, Mesra (Dec 2021 - Jul 2025)

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Personal Website

GitHub

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EDUCATION

•Birla Institute of Technology, Mesra

Bachelor of Technology, Information Technology

Dec 2021 - Present

8.55/10

•Chinmaya Vidyalaya, Jamshedpur

Central Board of Secondary Education - 12th Board

2020 - 2021

93%

EXPERIENCE

MTS Intern

Tata Steel

May 2024 - Jul 2024

Remote - Kolkata

- **Tools & Technologies used:** Python, Pandas, Tableau, PowerPoint, Next JS, Golang, PostgreSQL
- **Cleaned** and **processed** datasets to ensure accuracy and reliability.
- Developed **Tableau dashboards** that provided actionable insights from the processed data.
- Researched and conceptualized a cost-effective and developer-friendly way to build an internal tool.
- Developed a proof-of-concept generative AI-powered marketing tool, with projections based on studies suggesting up to a 29% increase in engagement rates and a 20% boost in conversions.

PERSONAL PROJECTS

•UrlShortener - URL Shortening Service

A web application for URL shortening operations built with Golang, Redis, Tailwind CSS, and Next JS.

- Source Code | Check it out
- **Tools & technologies used:** Next JS, Gin, Redis, and Tailwind CSS
- Build API endpoints using gin framework for - shortening URL, get URL analytics
- Implemented **WebSockets** for real-time analytics fetching.
- Utilized **Redis** to enhance URL lookup performance.
- Recorded URL analytics **concurrently** through efficient utilization of goroutines and channels.
- Developed a responsive user interface using Tailwind CSS and Next JS.
- Deployed the application by containerizing it with **Docker** for seamless deployment.

•HireFast - Hiring Platform

HireFast is a web application for recruitment operations built with Express.js (Node JS), PostgreSQL, Tailwind CSS, and React.js.

- Source Code | Check it out
- **Tools & technologies used:** React JS, Express JS, PostgreSQL, and Tailwind CSS
- Implemented **authentication** from scratch using **bcrypt** for hashing and **PostgreSQL** for user data storage.
- Developed using **MVC architecture**.
- Created multiple **API endpoints** for functionalities including applying to a job, posting a job, and searching for a job in Node JS.
- Designed and implemented a **responsive** front end using **React JS** and **Tailwind CSS**.
- Fetched data asynchronously to improve user experience.

TECHNICAL SKILLS AND INTERESTS

Languages: C, C++, JavaScript, Golang

Developer Tools: Postman, VS Code, Git

Frameworks & Libraries: Express JS (Node JS), React JS, Next JS, Gin

Databases: PostgreSQL, MySQL

Coursework: Data Structures, Algorithms Analysis, Object Oriented Programming, Operating System, Database Management, Computer Network

Areas of Interest: Web Development, Data Structures and Algorithm

ACHIEVEMENTS

•Specialist on Codeforces (handle - helloworld404)

•Amazon ML Summer School participant

Jul 2024