

Sajal Singhal

Adm. No. 21JE0802

8218633603

iamasinghal.sajal@gmail.com

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Education

Indian Institute of Technology (ISM) Dhanbad

Bachelor of Technology in Computer Science and Engineering CGPA: 9.41/10

Minor in Finance CGPA: 10/10

Dhanbad, Jharkhand, IN

Dec 2021 - May 2025

Aug 2022 - May 2025

Experience

LinkedIn | Certificate

Software Engineering Intern

May 2024 – Jul 2024

Bengaluru, Karnataka

- Enhanced the Customer Support Portal (CSP) using **EmberJS** and **Rest API (gRPC)**.
- Led a cross-functional team in implementing a new feature Multi-dashboard allocation on CSP fulfillment Page, resulting in reducing efforts by a factor of 9 for multi-year purchases and 3 for single-year purchases.
- Directly affecting LinkedIn core 4 metrics, specially Revenue.

Projects

DarkBuster – ML Enabled Browser Extension | NLP, Python, Flask, Node.js, React.js, Express.js

GitHub

- Designed and implemented **AI-enabled browser extension** that detected and counteracted over **95% of dark patterns** across major e-commerce platforms, improving user trust and transparency
- Integrated ML model to identify deceptive practices like misleading navigation, with a latency of **3 seconds**
- Deployed a public information **dashboard** displaying dark patterns data, promoting ethical online practices

Restaurant Simulation | C, C++, Shared Memory, Semaphore, Mutexes, IPC

GitHub

- Co-developed Linux-based operating system project focusing on process synchronization and inter-process communication (IPC).
- Designed and implemented solutions to mitigate race conditions, using a real-world restaurant scenario as a case study to demonstrate efficient resource management.
- Utilized shared memory, semaphores, and mutexes to coordinate concurrent processes, ensuring data consistency and system stability.

Technical Skills

Languages: C, C++, Python, JavaScript, SQL, Solidity

Technologies & Tools: ML Frameworks, Node.js, Express.js, React.js, Ember.js, Flask, PHP, Laravel, gRPC, Protocol Buffers, Git, Postman, Docker

Databases: MySQL, PostgreSQL, MongoDB, MariaDB

Concepts: DSA, Database Management, OOPS, Operating System, Machine Learning, Neural Networks, API, Cloud

Achievements & Position of Responsibilities

- All India Rank **JEE ADVANCED (1693)** and **JEE MAINS (4205)** in the year 2021, among 1.2 million candidates
- Club member at **CYBERLABS-(Tech Club)** of IITISM (**Blockchain Division**)
- Finalist in **Businelytics2023 ISM**, hackathon for business analysis
- Third Semester College Topper** - Achieved the highest **SGPA (9.96)**
- NTSE(2019)** and **KVPY(2021)** Stage-1 Qualified
- Qualified in **RMO' 2018** and various national olympiads
- Solved **1000+ problems** on various coding platforms and achieved **Global Ranks under 1000** in several coding contests
- Overall coordinator** at **Being Artifex** – Edu Tech Society of IIT (ISM) Dhanbad
- Organiser in **Srijan'23 (Cultural-fest)**, **Basant'22 (ALumini-fest)**

Coding Profiles

Leetcode

Codeforces

CodingNinjas

Codechef

GFG

Hackerrank