

# Manoj kumar sial

Software Engineer | Problem solving | Artificial Intelligence | Data structure and algorithms

✉ manojkumarsial2002@gmail.com

☎ +91 8117928321

🌐 manoj-kumar-sial-bb031b229

## WORK EXPERIENCE

---

### EazyByts Infotech

Full stack Java Developer

April 2024 - May 2024

- Created Inventory Management system, It is a web application to simplify small businesses to keep track of there products. Implemented user authentication (signup, login, and password recovery) using secure JWT-based access, ensuring user data protection.
- Collaborated with a team of 7 to implement a RESTful API using Node.js and Express, enabling 30% faster data transfer between the frontend and backend modules.
- Integrated JWT-based authentication to secure user access, improving application security by 35%.

## EDUCATION

---

### Indian Institute of technology Roorkee

Bachelor of Technology in Computer Science And Engineering

November 2021 - May 2025

## PROJECT

---

### Differentially Private Generative Adversarial Network

Feb 2024 - April 2024

- Created a Model that generate synthetic data from the real data and It will also predict future frame of a video and help to get lost or encrypted data. Used PyTorch, TensorFlow and GAN models.
- Implemented differential privacy mechanisms, including Laplace noise and exponential mechanism, to ensure privacy of user, enabling secure data generation while mitigating risks of privacy.

### Stockify (Trading Platform)

February 2024 - April 2024

- Developed a comprehensive trading platform that allows users to place trades, buy and sell stocks in real-time, and access detailed information about various stocks which are listed in the NSE.
- The platform is designed to provide an intuitive and seamless trading experience, enabling users to make informed decisions quickly and efficiently. Used: React.js Node.js, Express.js, RESTful APIs and MySQL.

### SIC/XE Assembler

March 2023 - April 2023

- Developed a 2-pass assembler for the SIC/XE machine using C++ to translate assembly language programs into object code. Supported multiple control sections and generated output files, including object code, tables, and comprehensive error reports.
- Implemented features such as a symbol table and Listing file to enhance functionality and usability.

### Design and Implementation of Configurable Cache Simulator

September 2022 - October 2022

- Spearheaded the design and implementation of a versatile configurable cache simulator in Verilog, enabling users to simulate and analyze various cache architectures.
- Incorporated the LRU page replacement policy, resulting in enhanced cache performance.

## SKILLS

---

- Computer languages: JAVA, C++, Python
- Software Packages: MY SQL, NoSQL
- Frontend: HTML, CSS, JavaScript and React.js
- Backend: Node.js, Express.js and RESTful API design
- Languages Known: English, Hindi, Odia

## AWARD

---

**Global Rank 7**    CodeChef Starters 150 Division 3

**Global Rank 88**    CodeChef Starters 149 Division 3