

Vinay jain

📍 Gurugram ✉ erjainvinay@gmail.com ☎ 9306648591 📁 Portfolio in er-vinayjain 🔄 Vinayjain2002

Education

Guru Jambheshwar University of Science & Technology, Hisar

Sept 2021 – May 2025

B.Tech in Computer Science

- **SGPA:** 7.52/10
- **Coursework:** C++, Data Structure & Algorithm, DBMS, Computer Network, Python, OOPS

Experience

Software Developer

Jan 2025 – Ongoing

Samriddhi automations pvt ltd, Noida

- Launched backend for Haryana Govt's WMS, integrating OCR and FastTag to automate vehicle identification, gate entries, and weight tracking—reducing manual data entry time by 70% and improving processing accuracy by 95%.
- Designed a real-time alert and reporting system, logging vehicle activity and flagging unauthorized entries for immediate admin action, boosting operational efficiency by 60%.

Network & Routing Intern

May 2024 – Sept 2024

Ciena India, Gurugram

- Learned Metro routing and Built Python scripts to automate system health checks, which run via the CLI and log data for future reference, improving daily efficiency by 80%.
- Implemented a Python-based CLI tool using Flask to interface with a C++ microservice, assisting in WaveRouter setup and providing real-time configuration feedback and error troubleshooting.

Software Application Intern

Aug 2023 – Oct 2023

Ciena India, Gurugram

- Optimized client API functionality for Ciena's software by analyzing latency metrics to ensure high reliability and performance; leveraged advanced data structures to enhance log management and accelerated data retrieval by 8%.
- Improved functional test coverage from 58% to 92% by integrating Unit tests and Mockito in Python.

Projects

StreamSync (*Node.js, AWS, RabbitMQ, Elastic Search, Docker, Kubernetes*)

[Link](#) 🔗

- Built a scalable video streaming backend (StreamSync) with AWS S3, RabbitMQ, Docker, and Kubernetes, using HLS to cut bandwidth by 40% and speed up load times by 50% versus direct AWS streaming.
- Integrated Elasticsearch for efficient video search and Bloom filters for rapid username availability checks, ensuring high availability, fault tolerance, and seamless scalability across distributed services.

Stay Smart (*MERN Stack, GraphQL*)

[Live Link](#) 🔗

- Engineered a MERN-based Hotel Booking App using GraphQL over REST, boosting data-fetch efficiency by 40% and cutting client overfetching by 60%, with features like filtered search and booking history.
- Developed admin features for managing hotels, rooms, and bookings to ensure smooth operations and user experience.

PeerPoint (*MERN Stack, Redux, Socket.IO*)

[Live Link](#) 🔗

- Engineered a real-time Chat Application using the MERN stack and Socket.io, enabling instant messaging through secure private chats, group discussions, and real-time notifications.

Infinity (*MERN Stack, Redux, MySQL*)

Working

- Designed a hackathon and bootcamp discovery module leveraging Redux for state sync and SQL for scalable queries, enhancing user engagement and real-time event access.
- Centralized hackathons, college fests, and bootcamps, saving students up to 50% time.

Technologies

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

Full Stack Development: MERN Stack with Kafka, Flutter with Node.js, Firebase

Database: MySQL, MongoDB, Redis, Graph DB, GraphQL, DragonFly, DynamoDB

Deployment: Git, Docker, Kubernetes, Jenkins(CI/CD)

Volunteer Experience

Core Team member of Coders Club: Hosted 9 events and coding tests, boosting engagement and execution.

Gwoat Branch Coordinator: Successfully organized 40+ aptitude tests, attracting 100+ students every time.

Certificates

System Design: (02/2025- 05/2025)

Full Stack Web development: (08/2022 - 05/2023)