

# Jyotiswaroop Srivastava

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## PROFESSIONAL EXPERIENCE

YARS Enterprises Private Limited, New Delhi, 2024 – Present, **Software Developer**

### CSC Compass

- Built an Admin **Web Portal**, enabling administrators to visualize user submissions from mobile apps, developed its backend to support analytics, handling **1000+ daily active users**.
- Optimized queries with **indexing and aggregation**, and implemented CSV data streaming, reducing query execution time by **40%**.
- Architected a centralized **logging pipeline** using **Grafana**, **Loki**, and **Promtail**, improving debugging of external API failures by **95%**.
- Deployed **containerized** applications in an **air-gapped environment** using Podman.

### Harit India

- Developed a scalable backend architecture using Node.js, implementing **RESTful APIs** with bulk data upload capabilities through files.
- Integrated **Easebuzz** payment gateway with secure tokenization and encryption standards, enabling seamless transaction processing using **webhooks**.
- Built a dynamic **B2B** marketplace with **negotiation** workflows, **order** management, and **invoice** generation modules.
- Engineered role-based access controls (**RBAC**) and **JWT** authentication for **AWS S3** media assets, fortifying user authorization and reducing unauthorized data access incidents to zero.

### Carbon Credit

- Designed a **microservice-based** backend using **NestJS**, leveraging **gRPC and Kafka** for efficient communication between services.
- Developed a task module with threaded comments similar to GitHub pull requests, enabling **real-time** updates through Server-Sent Events (**SSE**).
- Built a notification module with **WebSockets** + Firebase Cloud Messaging (**FCM**), ensuring instant push alerts across devices.

## PROJECTS

RemoteOffice – Canvas, Next.js, Node.js, Websockets and WebRTC

- Developed an **interactive virtual space** platform inspired by Gather.town, enabling real-time collaboration, events, and social interaction through **2D environments**.
- Implemented **multiplayer relative movement** using a WebSocket server for seamless real-time interactions.
- Integrated **proximity-based video/audio conferencing** via **WebRTC**, enabling high-quality, peer-to-peer conferencing within the platform.

## SKILLS & OTHER

**Languages:** JavaScript, TypeScript, C++, Python, Java, SQL

**Backend:** Node.js, NestJS, Express.js, gRPC, Kafka, WebSockets, REST APIs

**Frontend:** Next.js, React.js, React Native, TailwindCSS, Redux, Zustand, WebRTC

**Databases:** MongoDB, PostgreSQL, MySQL, Redis, Firebase

**DevOps & Tools:** Docker, Podman, Kubernetes, AWS (S3, EC2), Nginx, Git, GitHub Actions, CI/CD, Grafana, Loki, Promtail, Prometheus, Postman, Linux, Shell Scripting

## EDUCATION

**University of Delhi**, Atma Ram Sanatan Dharma College, 2021 – 2024

- Bachelor of Science, Honours, Computer Science, 8.42 CGPA

**Kendriya Vidyalaya**, Azamgarh, India, 2009 – 2021

- Senior School Certificate Examination, 2021, 96.6%