

ARYAN RANJAN

Patel Nager, Patna, Bihar 800023

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Summary

Results-driven Software Development Engineer with experience in full-stack development, scalable microservices, Internal Developer Platforms (IDP), and cloud-native systems. Skilled in Next.js, Go, PostgreSQL, Kubernetes, GraphQL, and DevOps tooling, with hands-on experience in Generative AI, LangChain, and RAG-based applications.

Experience

Physics Wallah

Sep. 2024 – Present

Software Development Engineer I

Noida

- Built a centralized Internal Developer Portal (IDP), reducing onboarding effort by 40%.
- Developed observability dashboards for logs, monitoring, Kubernetes metadata, and outages.
- Automated load-testing workflows, improving validation and analysis efficiency by 50%.
- Created self-service workflows for scaffolding, Kafka, S3, CDN, and deployments.
- Built a low-latency Go-based location API, reducing response latency by 35%.
- Contributed to the Power Batch revamp, driving 247% higher demo bookings and 7.6Cr annual revenue impact.
- Worked on checkout flow revamp, analytics event tracking, and multiple frontend UI bug fixes.

Exposys Data Labs

Jan. 2023 – Feb. 2023

Intern

Remote

- Built a CSV-based bulk email platform with email validation to improve delivery accuracy and reduce fake addresses.

Projects

Chat Web Application | *Next.js, Node.js, TypeScript, Redis, Kafka, PostgreSQL, Socket.io*

[Link](#)

- Built a scalable real-time chat application using Next.js, Node.js, Socket.io, and PostgreSQL.
- Integrated Redis, Kafka, JWT authentication, and responsive state-managed UI for reliability.

Polyshop | *Golang, GraphQL, gRPC, Docker, Elasticsearch, PostgreSQL*

[Link](#)

- Built a scalable Go-based microservices backend using GraphQL, gRPC, and PostgreSQL.
- Integrated Elasticsearch and Docker Compose for performant search and orchestration.

YouTube Chatbot Extension | *FastAPI, RAG, Hugging Face LLM, Vector Store, React.js*

[Link](#)

- Built a YouTube chatbot extension using RAG, embeddings, and vector search for video-based Q&A.
- Developed FastAPI APIs and integrated Hugging Face LLMs for contextual chat responses.

Education

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY

July. 2021 – July 2025

B.Tech in Electronics and Communication

Nagpur, India

- CGPA: 7.96

DAV Public School, BSEB Colony

April 2018 – April 2020

Higher Secondary in Physics, Chemistry & Maths

Patna, India

- Percentage: 92%

Technical Skills

Languages: C++, Go (Golang), TypeScript, JavaScript, Python, Bash, HTML, CSS

Frameworks/Technologies: Next.js, React.js, Redux, Node.js, Express, GraphQL, REST API, Kafka, Redis, PostgreSQL, MongoDB, MySQL, RabbitMQ, Memcached, SMTP, Linux, LangChain, RAG, Generative AI, AI Agents

Developer Tools: Git, Docker, Kubernetes, Jenkins, ArgoCD, AWS, Ansible, Vagrant, Maven, Grafana, APM, Elastic Beanstalk, SonarQube, Claude, Cursor, GitHub Copilot

Achievements

- Solved 600+ DSA problems across coding platforms with strong System Design knowledge.
- Certified Web Developer: Completed The Complete 2024 Web Development Bootcamp on Udemy. ([Certificate Link](#))