Praveen Kumar

GitHub | LinkedIn | praveen@nyapata.com | +91-8860508848 | Gurugram, India

EDUCATION

DELHI TECHNOLOGICAL UNIVERSITY (FORMERLY DCE)
B.Tech Electronics and Communication Engineering
Grad. June 2025 | Delhi, India

KENDRIYA VIDYALAYA NO. II DELHI CANTT
Senior Secondary | July 2021
print("First Hello World", 2019)

COURSEWORK

- Data Structures
- Algorithm Design and Analysis
- Operating Systems
- Computer Networks
- Object-Oriented Programming
- Python Programming
- Database Management
- Object-Oriented Software Eng
- Software Engineering
- Natural Language Processing
- Theory of Computation
- Agentic AI Engineering (Udemy)

SKILLS

- Python • JavaScript • C++
- React.js • Django
- Flask/FastAPI • Node.js
- MySQL • MongoDB • Redis
- DynamoDB • AWS S3
- Nginx • Docker • AWS EC2
- Github Actions (CI/CD) • Github
- AWS Lambda (Serverless)
- OpenAI SDK • RAG • VectorDB
- FAISS • ChromaDB • LLM
- Web3.js • Solidity • HTML
- Tailwind CSS • Git
- Cursor • Linux • VS Code
- Postman
- Analytical Problem Solving
- System Design

ACHIEVEMENTS

- JEE Main: 97%ile
- Secured 2nd place out of 300 participants in Hackathon BFF
- Led a team of 8 at Nyapata
- Corporate Head at India's largest film and festival society Yuvaan, securing sponsorship deals

WORK EXPERIENCE

CWY | Full Stack Developer
July 2025 - Sep 2025 (Contract Role) | Remote – Ontario, Canada
- Built a MERN-stack WhatsApp CRM with automated lead handling and integrated **Scotiabank's RTP API**, leveraging Cursor for rapid development

NYAPATA | Founder and Software Development Engineer [Visit]
March 2024 - June 2025 | Delhi, India
- Architected, designed, and developed a scalable, responsive, mobile-first web application using the **MERN** stack and **Tailwind CSS**, from initial planning to production deployment — achieving **5,000+ monthly active users.**
- **Dynamic meta tags** on React.js client-side rendered **(CSR) pages** using **Edge Functions** at the **CDN** for enhanced SEO and social media preview.
- Integrated Progressive Web App (**PWA**), including **service workers caching, lazy loading, code splitting, Gzip compression and Terser** based minification for improved performance and faster load times
- Optimized **database** schema with geolocation **indexing**, schema validation **(Mongoose)**, and server-side **pagination** for performance and scalability.
- Implemented backend security best practices including **rate limiting, custom middleware, and headers hardening**
- Role-based access control (**RBAC**), Google **OAuth** 2.0, **JWT** sessions; Manager Dashboard with protected routes
- React.memo, custom hooks, and **Redux** for clean and modular state management; Improved Web Vitals (**LCP < 2.5s, CLS < 0.1**); Mapbox API with interactive **polygon drawing on map** and geospatial features
- Built a **Telegram bot using FastAPI, PyTorch (Ultralytics YOLO), and OpenAI SDK** to automate property uploads to the Nyapata database with image object detection and real-time conversational interaction : `GitHub`

AMAZON | Software Development Engineer Intern
May 2024 - July 2024 | Bengaluru, India
- Contributed to the **SmartBiz Seller Experience Enhancement** project by developing a mobile header image management system, allowing sellers to preview, replace, and delete hero banners with ease (**TypeScript, Mobx**)
- Developed **CloudAuth-based APIs** across three services to update in **DynamoDB** (Java, SpringBoot, AWS DynamoDB)

PROJECTS

OMEGLE CLONE | Video Chat App [HTTP://3.6.124.124] [GitHub]
Real-time backend (Node.js, **Socket.IO, Redis**) with dynamic user pairing and **in-memory session management**, deployed on **AWS EC2**
- Dockerized the **full stack using Docker Compose**, set up **NGINX** as a reverse proxy and configured **CI/CD with GitHub Actions**.
- Integrated **Winston and Morgan** for structured logging; used **Git** with standard branching strategies to manage the codebase efficiently

AI AGENT - SALES [GitHub]
OpenAI SDK (**Handoff, Tools, Guardrails, Traces)** powered autonomous agent to automate email generation and replies using **GEMINI LLM**.
- Enabled **data retrieval from MongoDB by converting natural language inputs into database queries** using AI-Agent.
- **ChromaDB** for embedding-based context retrieval in a RAG system

PORTFOLIO | AI Chat-Bot [Visit]