

# Pankaj Kumar

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## Education

Lovely Professional University

Aug 2023 – Present

Bachelor of Technology in Computer Science and Engineering

CGPA: 8.19

Kendriya Vidyalaya, Hakimpet, Secunderabad

Apr 2021 – Mar 2023

Intermediate

Percentage: 87.4%

Kendriya Vidyalaya, Hakimpet, Secunderabad

Apr 2020 – Mar 2021

Matriculation

Percentage: 71.2%

## Training

Cipher School

Jun 2025 – Jul 2025

Cloud Computing AWS

- Completed an industry-aligned AWS Cloud Computing training focused on EC2, VPC, Load Balancing, Auto Scaling, IAM, S3 and CI/CD with hands-on deployment practices.
- Developed and deployed a multi-instance web application architecture on AWS using EC2, ALB, security groups, and networking concepts.
- Gained practical skills in cloud deployment, instance management, monitoring, automation, and optimizing cloud workloads following AWS best practices.

## Projects

[Study Solutions - AI Educational Platform](#) | *Next.js, React, Supabase, Clerk, Vapi*

 [GitHub](#)

- Built a real-time AI-powered educational platform integrating GPT-4, Deepgram, and ElevenLabs via Vapi SDK, enabling seamless voice-based conversational tutoring with dynamic assistant states.
- Designed scalable backend infrastructure using Supabase (PostgreSQL) with Server Actions for session logging, pagination control, subscription-based access (Basic, Pro), and optimized API performance.
- Implemented secure authentication using Clerk, real-time voice visualizations, structured business logic, and centralized error handling to ensure stable production deployment and modular scalability.

[Unimart - Real-Time Delivery Tracking](#) | *Node.js, Express.js, MongoDB, Socket.IO, React.js, Redux*

 [GitHub](#)

- Built a production-ready full-stack delivery platform with role-based authentication for Customers, Delivery Partners, and Admins using JWT, Express.js, and MongoDB with clean, modular API architecture.
- Implemented real-time order tracking using Socket.IO and WebSockets, streaming live driver GPS locations to customers on interactive maps (React Leaflet) for an Uber-like delivery experience.
- Integrated real-time client-side communication and mapping workflows using Socket.IO Client and React Leaflet delivering sub-500ms live location updates, supporting 100+ concurrent active orders, and improving delivery visibility and user trust.

[Recipe Finder](#) | *React.js, Redux, Tailwind CSS, Supabase*

 [GitHub](#)

- Engineered a Full-stack recipe platform using React and Supabase, achieving 100% data persistence for user-specific favorite lists through secure backend integration.
- Architected centralized state management using Redux Toolkit, reducing prop-drilling by 80% and ensuring seamless data flow across search and category filters.
- Optimized UI performance with Tailwind CSS and React Router, delivering a fully responsive experience with sub-1 second page transitions across all devices.

## Technical Skills

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

**Frontend:** HTML, CSS, Tailwind CSS, React.js, Next.js, Redux Toolkit

**Backend:** Node.js, Express.js, REST APIs, MongoDB, JWT, Cloudinary

**Tools/Platforms:** GitHub, Git, Netlify, Render, Postman, Google Search Console

**Soft Skills:** Problem-Solving, Project Management, Time Management

## Certifications & Achievements

- **Certifications:** Node.js by Scaler (Feb 2026), Social Networks by NPTEL (Oct 2025), MERN Stack by Udemy (Dec 2024), Responsive Web Design (Nov 2023).
- **Leetcode Achievements:** Solved 150+ Data Structures and Algorithms problems, covering Arrays, Strings, Linked Lists, Trees, Graphs, Recursion, and Dynamic Programming.
- **HackerRank Badges:** Earned a Gold Level Badge in Java on HackerRank by solving complex algorithmic challenges and accumulating over 300+ points.