

# Manupati Ramana Kumar

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## Professional Summary

Full Stack Developer with proven expertise across frontend, backend, and cloud-native systems. Skilled in React, Next.js, Node.js, PostgreSQL, and MongoDB. Built production-grade applications with GPT-4 integration, secure RESTful APIs, microservices, optimized UIs, and automated CI/CD pipelines. Experienced in scalable and robust application design, cloud deployment, Kubernetes, and automated testing.

## Technical Skills

- Languages:** JavaScript (ES6+), TypeScript, Python, Java
- Frontend:** React.js, Next.js, Tailwind CSS, HTML5, CSS3
- Backend:** Node.js, Express.js, RESTful APIs, JWT, Microservices, ORMs (Prisma, Sequelize)
- Databases:** PostgreSQL, MongoDB, MySQL (SQL & NoSQL)
- AI/ML:** GPT-4, Gemini API, Hugging Face
- DevOps/Tools:** Docker, Kubernetes, CI/CD, Git, GitHub, Postman, AWS S3, Automated Testing (Jest, Mocha)

## Experience

**Full Stack Developer Intern, YEBSYS**  
Sep 2024 – Dec 2024

Coimbatore, Tamil Nadu

- Built a UPI/card-integrated payment platform with Next.js & TypeScript, improving transaction success by 20% while ensuring scalability and security best practices.
- Optimized frontend with Tailwind CSS & lazy loading, cutting load times by 35%.
- Automated deployments using Docker & GitHub Actions CI/CD pipelines, reducing manual errors by 90%.
- Collaborated with cross-functional teams to deliver robust software aligned with business requirements.

## Projects

**Rephrase AI Platform**

Next.js, Typescript, GPT-4, Hugging Face, PostgreSQL, Stripe

- Built an AI-powered PDF summarization platform with GPT-4 & Hugging Face, including smart API fallback.
- Implemented secure RESTful APIs with JWT authentication and role-based access, tested using Jest.
- Managed 50+ concurrent user tasks with PostgreSQL & WebSockets for real-time progress tracking.
- Integrated Stripe for subscriptions and API key gating, ensuring data protection and compliance.

**Blog Platform**

MERN Stack

- Designed CRUD-enabled blogging system with schema validation & protected routes.
- Created reusable React components and enforced role-based backend access.
- Improved page load speed by 45% through memoization, code-splitting, and performance optimization.

**ATOP Health Vault**

Next.js, PostgreSQL, Stripe

- Developed a secure health record vault at a university hackathon using JWT authentication and refresh tokens.
- Reduced unauthorized access by 95% by implementing advanced security measures.
- Designed backend APIs with scalability in mind, enabling smooth handling of increasing user traffic.

## Education

**Dhanalakshmi Srinivasan University**

Tiruchirappalli, Tamil Nadu

B.Tech in Artificial Intelligence and Data Science | **Graduated:** May 2025  
CGPA: 7.69/10 | Led multiple academic projects.

## Achievements

- DSU Hack-O-Verse 2024:** 1st place among 170+ teams | Awarded \$800 seed funding.
- AlgoBharat Hackathon:** 2nd place | Invited to Algorand Greenhouse Hack, Singapore.
- Research Paper:** Published on Quantum-Inspired Deep Learning for Financial Data in IJARIT(Vol.11,Issue3).