# Manupati Ramana Kumar

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## Professional Summary

Full Stack Developer specializing in scalable, cloud-native web applications using Next.js, Node.js, and PostgreSQL. Proven track record of delivering high-performance solutions with integrated AI capabilities, secure RESTful APIs, and automated CI/CD pipelines.

## Technical Skills

- **Languages:** JavaScript (ES6+), TypeScript, Python, Java
- **Frontend:** React.js, Next.js, Tailwind CSS, HTML5, CSS3, IndexedDB
- **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)

## Experience

**Full Stack Developer Intern, YEBSYS**                                    **Coimbatore, Tamil Nadu**
Sep 2024 – Dec 2024

- 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

**TaskGlyph (Offline-First Workspace)**          **Next.js 15, IndexedDB, PostgreSQL, AWS S3**

- Engineered a resilience-focused productivity platform that functions 100% offline using local-first architecture.
- Built a custom sync engine with **IndexedDB (Dexie.js)** to queue offline actions and flush to PostgreSQL upon reconnection, using a "Last-Write-Wins" strategy for conflict resolution.
- Achieved 0ms latency for UI interactions by decoupling the frontend state from network availability.
- Integrated AWS S3 for secure file storage and Razorpay for premium subscription management.

**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.

**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 IJARIIT(Vol.11,Issue3).