

Nehardh Madapuri

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PROFESSIONAL SUMMARY

Software engineer skilled in full-stack development, AI/ML basics, and cloud tools, focused on building clean, scalable, and reliable applications with strong problem-solving fundamentals.

EDUCATION

- Bachelor of Technology in Computer Science and Engineering, JNTUH** 2022–2026
Vardhaman College of Engineering, Shamshabad CGPA: 8.9
- Intermediate in MPC, Telangana Board of Intermediate Education (TSBIE).** 2020-2022
Fruitjee Junior College, Narayanaguda CGPA: 9.51

TECHNICAL SKILLS

Languages: JavaScript, Python, Java, C, SQL, TypeScript

Frontend: React.js, Next.js, Tailwind CSS

Backend: Node.js, Express.js, FastAPI

Databases: PostgreSQL, MongoDB, MySQL, Redis

Cloud/DevOps: AWS, Docker, GitHub Actions, CI/CD

AI/OCR: Textract, Tesseract, spaCy, OpenAI API, LangChain, Vector DBs

Core CS: DSA, OOP, System Design, Security

INTERNSHIP AND CASE STUDY EXPERIENCE

- AI/ML Case Study – Healthcare Claim Validation System** *Hybrid*
Evernorth Health Services (Centre of Excellence, Vardhaman College) Jun 2025 – Oct 2025
 - Built an AI-based claim validation system using AWS Textract, spaCy, FastAPI, and PostgreSQL to automate verification of 1,000+ medical forms with 92 percent OCR accuracy.
 - Reduced manual validation time by 60 percent through rule-based validation and HIPAA-compliant data handling with encrypted APIs.
- Cybersecurity Intern** *Remote*
Supraja Technologies, Hyderabad Nov 2024 – Feb 2025
 - Analyzed 50,000+ web traffic records using Python and SQL, cutting exposure to high-risk domains by 95%.
 - Built real-time dashboards with Plotly to visualize security threats and reduced incident response time by 70%.
- Full Stack Developer Intern** *On-site*
MetaSketch Pvt. Ltd., Hyderabad Oct 2023 – Feb 2024
 - Developed three production-ready MERN applications serving 1,000+ users with 99.9% uptime and improved engagement by 25%.
 - Optimized database queries and API endpoints, cutting response time by 40 percent using indexing and caching.

TECHNICAL PROJECTS

- CodeTrail – Coding Progress Analytics Platform**
 - Developed full-stack application visualizing 500+ coding problems with Next.js, PostgreSQL, and Chart.js.
 - Implemented secure authentication with NextAuth for 200+ users and reduced query latency by 50 percent.
- AI-Powered Study Material Generator**
 - Created an AI-based tool using Flask and GPT-4 API to automate content generation, cutting manual work by 80 percent.
 - Processed 500+ user interactions with MongoDB to deliver personalized study recommendations.

• MERN Productivity Suite – Notes, Calendar and Whiteboard

- Built a productivity app integrating sticky notes, calendar, and whiteboard modules with real-time sync via WebSockets.
- Reduced data latency by 60% and improved task management efficiency by 30 percent.

• CRM Application with RBAC

- Built Django-based CRM system with role-based access control managing 1,000+ records across 50 users.
- Increased workflow efficiency by 35% through automation and optimized database design.

CERTIFICATIONS AND TRAINING

- AWS Academy Cloud Foundations – Completed cloud computing fundamentals including EC2, S3, Lambda, and IAM.
- AI/ML Internship – NIELIT: Certified in AI model development and deployment strategies.
- MongoDB Basics – MongoDB University: CRUD operations, aggregation pipelines, and NoSQL schema design.
- Java Developer – HackerRank: Certified in Java programming and algorithmic problem solving.
- Full Stack Developer – Apna College: MERN stack training with hands-on projects.
- Programming in Java – NPTEL (Jan–Apr 2024): Object-oriented programming and data structures.

ACHIEVEMENTS AND LEADERSHIP

- Winner – Cybersecurity Hackathon 2024: Built a machine-learning based malicious website detection tool.
- Recognized as Student Entrepreneur by the Institution’s Innovation Council for leading innovative tech initiatives.
- Head – Sports Club (Badminton): Organized college tournaments, boosting participation by 40%.
- State Badminton Champion 2024: Represented Vardhaman College at the Telangana state-level championship.
- Solved 300+ LeetCode problems demonstrating strong analytical and algorithmic skills.
- Represented Telangana twice as a state-level skater in national championships.