PONNAPALLI MAHESH

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PROFESSIONAL SUMMARY

Entry-level Software Engineer with expertise in full-stack web development, machine learning, and cloud technologies. Proficient in JavaScript, Python, and Java with hands-on experience architecting scalable applications using MERN stack. Strong foundation in data structures, algorithms, object-oriented programming, and database management systems.

EDUCATION

Bachelor of Technology in Artificial Intelligence and Machine Learning   2021 – 2025
Vasireddy Venkatadri Institute of Technology   *CGPA: 8.2/10.0*

TECHNICAL SKILLS

Programming Languages: Python,Core Java
Frontend Technologies: React.js, Redux, Context API, HTML5, CSS3, Bootstrap, Tailwind CSS, Material-UI, Responsive Design
Backend Technologies: Node.js, Express.js, Django, Flask, FastAPI, RESTful APIs, Microservices
Databases: MySQL, MongoDB
Machine Learning: Scikit-learn, Pandas, NumPy
Core Competencies: Data Structures, Algorithms, OOP, API Development, Debugging

PROJECTS

Agri-Management System | *GitHub* | *Python, Django, MySQL, ML, NLP, AWS*
- Architected yield forecasting model processing historical agricultural data (soil composition, rainfall, temperature)
- Integrated third-party weather API (OpenWeatherMap) with Django backend enabling real-time data synchronization and automated alert system for 500+ concurrent users
- Designed NLP-powered conversational chatbot using TensorFlow trained on 10,000+ agricultural queries achieving 92% query resolution rate
- Deployed production-ready application on AWS infrastructure utilizing EC2

Mystore E-Commerce Platform | *Live Demo* | *React.js, Context API, Tailwind CSS, REST API*
- Architected full-featured e-commerce SPA using React.js with component-based architecture serving 100+ products across 15 categories .
- Engineered global state management solution using Context API eliminating prop drilling across 30+ components and reducing code complexity %
- Optimized mobile-first responsive interface using Tailwind CSS utility classes, Implemented API-based data fetching for products, enabling dynamic rendering and improved user experience.

React.js Portfolio Suite | *GitHub* | *React.js, Redux, Hooks, TypeScript*
- Constructed 15+ production-grade React applications demonstrating advanced patterns: Custom Hooks, Higher-Order Components, Render Props, and Compound Components
- Leveraged modern JavaScript features (async/await, destructuring, spread operators, template literals) and functional programming paradigms for cleaner codebase
- **Live Applications:** Pagination — Redux State Management — API Integration

PROFESSIONAL EXPERIENCE

AI-ML Virtual Intern   Oct 2024 – Dec 2024
Remote Internship

CERTIFICATIONS

JavaScript Programming Certification – GeeksforGeeks — *Verify*
Generative AI Fundamentals – Google Cloud (L4G) — *Verify*
Responsive Web Design Certification – NXTWAVE — *Verify*
Full Stack Web Development – Udemy
Goldman Sachs Operations Virtual Experience – Forage — *Verify*
Python Programming (5-Star Rating) – HackerRank — *Verify*
SQL Database Management – NXTWAVE — *Verify*