Kamal Poshala

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PROFESSIONAL SUMMARY

Motivated Computer Science graduate student with strong foundations in software development, full-stack engineering, machine learning, and cloud technologies. Experienced in building scalable applications using React.js, Node.js, MongoDB, and Python. Skilled in blockchain (Solidity, Hardhat), distributed systems, and data-driven problem solving. Certified in Oracle Cloud Generative AI and Foundations, with hands-on experience delivering production-ready academic and industry projects.

EDUCATION

University of Oklahoma — Norman, OK
Master of Science in Computer Science — *Aug 2024 – May 2026*
CVR College of Engineering — Hyderabad, India
Bachelor of Technology in Information Technology — CGPA: 9.08/10 — *Aug 2020 – May 2024*

EXPERIENCE

Persistent Systems — Aug 2023 – Oct 2023
Martian – Summer Internship Program
- Completed intensive training in Linux, Java, Data Structures, Algorithms, and DBMS.
- Solved industry-aligned programming challenges and optimized algorithms for performance.
- Worked in Agile-based collaborative environment simulating real-world engineering workflows.

PROJECTS

Internship Program Management System (IPMS) | *React, Node.js, MongoDB, NodeMailer* — 2025
- Developed a full-stack system for managing internship submissions, approvals, and automated notifications for OU students.
- Implemented Coordinator approval workflow, email automation, CRUD APIs, and secure data handling.
- Enhanced UI/UX using React.js and improved backend scalability using modular Node.js architecture.

Decentralized Freelance Marketplace (DApp) | *Solidity, Hardhat, React, IPFS, Pinata* — 2025
- Built an escrow-based freelance marketplace using Ethereum smart contracts for secure job creation and payments.
- Integrated MetaMask authentication and Web3.js interactions for on-chain operations.
- Implemented decentralized file storage using IPFS and Pinata for project deliverables.
- Simulated DAO-based dispute resolution to ensure fairness and transparency.

Pothole Detection using Deep Learning | *Python, ResNet* — 2024
- Developed a computer vision system using ResNet to detect and classify potholes from geotagged images.
- Improved model accuracy through transfer learning using ImageNet pretrained weights.

CogniFetch – Intelligent Learning Resource System | *React, Express, MongoDB* — 2024
- Built an AI-powered platform that extracts text using OCR and recommends syllabus-specific resources.
- Integrated OpenNLP, GPT-style APIs, and Google APIs to retrieve precise academic content.

CERTIFICATIONS

Oracle Cloud Infrastructure 2025 Certified Generative AI Professional (Valid until Oct 2027)

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate (Valid until Oct 2027)

Oracle Cloud Infrastructure 2025 Certified Foundations Associate (Valid until Oct 2027)

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C
Web/Frameworks: React.js, Node.js, Express, HTML, CSS
Blockchain: Solidity, Hardhat, Web3.js
Databases: MongoDB, MySQL
Cloud/DevOps: Oracle Cloud, Docker, Git, GitHub
Machine Learning: NumPy, Pandas, Matplotlib, scikit-learn