

CONTACT

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📄 LinkedIn Profile
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📍 Norman, OK

EDUCATION

MS Computer Science

University of Oklahoma • GPA: 3.64
Aug 2024 – May 2026

BTech CS (AI & ML)

Vardhaman College of Engineering
Aug 2020 – May 2024

TECHNICAL STACK

Python • Java • SQL
TensorFlow • Keras
Scikit-learn • OpenCV
Solidity • Hardhat
Ethers.js • MetaMask
PostgreSQL • MongoDB
Flask • Django • React

CORE STRENGTHS

Machine Learning • Deep Learning
AI Systems • Medical AI
Blockchain • Smart Contracts
Computer Vision • Database Optimization
System Design • APIs

TOOLS

Git • Docker • AWS
Node.js • Jupyter
Oracle • MySQL • WEKA

CERTIFICATIONS

Google AI Essentials Specialization
Machine Learning Specialization – Coursera
IBM Data Science Professional Certificate

ACHIEVEMENTS

Intramural Volleyball Winner – OU
Intramural Badminton Champion – OU (2 Consecutive Years)
Best Idea Contest Winner – VCE
College Debate Competition Winner – VCE

LANGUAGES

English • Hindi • Telugu

Surya Prabhav Gurram

AI Systems | Machine Learning | Blockchain | Distributed Systems

MS Computer Science • University of Oklahoma

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PROFILE

Computer Science Graduate focused on AI-driven systems engineering, intelligent database optimization, blockchain infrastructure, and large-scale machine learning applications. Experienced in developing high-performance software platforms spanning Web3 technologies, deep learning-based medical imaging, AI-powered predictive analytics, and distributed data systems. Specialized in combining machine learning, system architecture, and optimization techniques to build scalable, research-oriented solutions across healthcare diagnostics, fintech security, and intelligent automation domains.

EXPERIENCE

Student Supervisor

Aug 2024 – May 2026

University of Oklahoma | Norman, OK

► Led and coordinated operations within a high-volume university environment by supervising teams, optimizing workflow efficiency, managing real-time operational challenges, and supporting onboarding, training, and performance management in fast-paced collaborative settings.

Software Engineering Intern

Aug 2023 – Nov 2023

Made For Few | Hyderabad, India

► Engineered and optimized scalable full-stack software solutions by developing responsive interfaces, integrating secure transaction-processing pipelines, improving backend workflow efficiency, and collaborating on deployment, debugging, and performance optimization within agile development environments.

FEATURED TECHNICAL PROJECTS

SoonerBoomer+ – Blockchain-Based ERC-20 Claim dApp

Solidity • Ethereum • OpenZeppelin • Hardhat • Ethers.js

Developed a decentralized ERC-20 token distribution platform using smart contracts, Merkle proof verification, on-chain allowlist validation, MetaMask wallet integration, and gas-efficient claim authentication.

PostgreSQL Index Optimization using AI & LLMs

PostgreSQL • TPC-H • AI Optimization • Benchmarking

Built an intelligent index recommendation framework using workload-driven analysis on TPC-H datasets, automated benchmarking pipelines, query latency evaluation, BALANCE-inspired analysis, and λ-Tune optimization concepts.

Intellectual Farm – AI-Powered Agriculture Platform

TensorFlow • Scikit-learn • CNN • Flask/Django

Developed a full-stack agricultural platform integrating crop yield prediction, weather forecasting, and CNN-based plant disease detection using predictive analytics and smart farming recommendations.

Brain Tumor Detection – MRI & Hyperspectral Imaging

Deep Learning • Medical Imaging • TensorFlow • OpenCV

Developed CNN-based medical imaging models for MRI tumor detection, scan segmentation, hyperspectral tissue analysis, localization accuracy, and image preprocessing.

Credit Card Fraud Detection using HNB & BBN

Machine Learning • Bayesian Models • Anomaly Detection

Designed a fraud detection system using Hybrid Naive Bayes and Bayesian Belief Networks with preprocessing pipelines and anomaly detection on transactional datasets.

ECG-Based Cardiovascular Disease Detection

CNN • ECG Analysis • Healthcare AI

Developed CNN-based predictive models for ECG image analysis using temporal and frequency-domain feature extraction for cardiovascular disease screening.