

Lohith Kola

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EDUCATION

International Institute of Information Technology Hyderabad (IIIT-H)

Hyderabad, India

B.Tech in Computer Science and Engineering

2024 – 2028

- Relevant Coursework: Data Structures and Algorithms, Introduction to Software Systems, Data and Applications, Embedded Systems Workshop, Internet of Things (IoT)

EXPERIENCE

Student Developer

Nov. 2025 – Present

International Institute of Information Technology Hyderabad (IIIT-H)

Hyderabad, India

- Designed and implemented a post-stay feedback module for a guesthouse booking system using PHP and MySQL
- Built backend-driven eligibility checks to prevent duplicate submissions and ensure data integrity

Software Development Intern

Jan. 2025 – May 2025

Smart City Living Lab @ IIIT-H

Hyderabad, India

- Developed Android features for real-time environmental monitoring using REST APIs and sensor data
- Implemented data visualization modules and custom home-screen widgets

PROJECTS

ShotIQ — NBA Shot Prediction Platform | Python, XGBoost, FastAPI, Supabase, React

Dec. 2025 – Present

- Designed and deployed an ML-powered NBA shot prediction system trained on 3.6M+ historical shots spanning 18 seasons
- Performed feature engineering on spatial, temporal, and action-based attributes and evaluated XGBoost models for accuracy and generalization
- Built and integrated FastAPI-based prediction and analytics APIs with an interactive frontend supporting heatmaps, shot charts, and player comparisons

Tangent — H-1B Petition Management Platform | Next.js, TypeScript, Supabase

May 2025 - Aug. 2025

- Developing a full-stack web platform to streamline H-1B petition workflows for startups, including employer onboarding and document management
- Implemented role-based authentication, secure file uploads, and structured employer–employee–attorney workflows

SLM Sustainability Benchmarking on QIDK | Edge AI, Performance Analysis

Aug. 2025 – Dec. 2025

- Built an edge AI benchmarking framework to evaluate Small Language Models across QA, summarization, and RAG workloads
- Collected per-query metrics including accuracy, latency, energy consumption, and carbon emissions using device-level profiling

Distributed File System (Docs++) | C, TCP Sockets, Concurrency

Oct. 2025 – Nov. 2025

- Implemented a Google Docs-inspired distributed file system using a Name Server and multiple Storage Servers
- Designed support for permissions, concurrency control, replication, and fault tolerance using TCP-based communication

C-Shark — CLI Packet Sniffer | C, libpcap

Oct. 2025

- Built a libpcap-based CLI packet sniffer with live traffic capture, protocol filtering, and deep packet inspection

C-Shell — Unix-like Shell | C, POSIX

Sep. 2025

- Implemented a Unix-like shell with command parsing, process control, I/O redirection, and built-in commands

TECHNICAL SKILLS

Languages: Python, C/C++, Java, JavaScript, SQL

Machine Learning: XGBoost, Scikit-learn, pandas, NumPy, Matplotlib

Web & Backend: React, Node.js, Express, Flask, FastAPI

Systems: Linux, POSIX system calls, Git, Docker

Databases: PostgreSQL, MongoDB