

Adusumalli Venkata Abhiram

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EXPERIENCE

Frontend Development Intern, Trinow Solutions

May 2024 – Jun 2024

JavaScript, HTML, CSS, Bootstrap

Visakhapatnam, India

- Diagnosed and resolved the **3 most frequent UI crashes**, clearing them from production error logs and improving application stability for end users.
- Refactored frontend architecture and component rendering, cutting render time for critical UI elements by **30%**.

PROJECTS

LatticeGuard — Quantum-Secure SBOM System [GitHub]

Python, Cryptography, NIST FIPS 204 (ML-DSA-65), AST Analysis

- Built a quantum-secure **Software Bill of Materials (SBOM)** system using NIST FIPS 204 ML-DSA-65 and hybrid cryptographic signatures.
- Engineered a **4-stage security pipeline** with typosquat detection, risk scoring, AST-based malware scanning, and secure key generation.
- Implemented an automated cryptographic attestation framework for signed SBOM generation and tamper-proof software integrity verification.

PrivAccess — Zero-Knowledge RBAC Framework [GitHub]

Zero-Knowledge Proofs, RBAC, Cryptography, Authentication

- Engineered a privacy-preserving **Role-Based Access Control (RBAC)** framework using Zero-Knowledge Proof principles to authorize users without exposing credentials.
- Identified and remediated authorization vulnerabilities, hardening the security of the user access workflow.

Hyperlocal Supply Chain Connector [GitHub]

Full-Stack Web, AI/ML

- Developed an **AI-powered B2B web platform** connecting smallholder farmers and artisans directly with nearby restaurants and retailers.
- Connected farmers and artisans directly with buyers, removing intermediaries to cut sourcing costs and food waste.

Task Management System [GitHub]

Full-Stack Web, Authentication

- Built a secure user **authentication system** and a dashboard with priority-based filtering and real-time status tracking.
- Designed a task-tracking interface with clear priority and status views, improving task visibility across teams.

EDUCATION

SRM Institute of Science and Technology, AP

2023 – 2027

Bachelor of Technology in Computer Science and Engineering

Andhra Pradesh, India

- Relevant Coursework: Data Structures & Algorithms, DBMS, Operating Systems, Object-Oriented Programming, Machine Learning.
- CGPA: 7.58/10.

FIITJEE Junior College

2021 – 2023

Intermediate (Class XII)

Vijayawada, India

- GPA: 7.48/10.

Sri Venkateswara Bala Kuteer

2020 – 2021

Secondary School (Class X)

Guntur, India

- GPA: 7.84/10.

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python, JavaScript

Frontend: HTML, CSS, Bootstrap

Machine Learning: Classification, Feature Engineering, Data Preprocessing

Libraries & Tools: OpenCV, MediaPipe, NumPy, Pandas, Git

Databases: MySQL

Core CS: Data Structures & Algorithms, Object-Oriented Programming, DBMS

ACHIEVEMENTS & CERTIFICATIONS

- ET-AI Hackathon 2026 Semi-Finalist** — Advanced to the semi-finals of The Economic Times AI Hackathon, a national-level competition, competing as a team (Feb 2026).
- MongoDB Associate Developer** — MongoDB. [Credential]
- Red Hat Certified System Administrator (RHCSA)** — Linux administration, networking, and storage on RHEL. [Credential]
- Red Hat Certified Specialist in Containers** — Container management and deployment. [Credential]
- Oracle Certified Professional: Java SE 17 Developer** — OOP, streams, and concurrency. [Credential]
- SAP Global Certification** — SAP enterprise fundamentals. [Credential]