

Athuluri Akhil

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Summary

Computer Science graduate with a solid foundation Linux, networking, and AWS cloud and AI-powered tools. Proven experience building scalable web applications, secure systems, and developer-focused platforms using modern tech stacks. Demonstrated leadership in community-driven tech initiatives and recognized in multiple hackathons for innovative problem-solving. Passionate about crafting impactful software solutions with a focus on performance, security, and user experience.

Technical Skills

Operating Systems: Linux (Fedora, Ubuntu)

Linux Services: Web servers, DNS configuration

Programming Languages: Java, Python, Bash scripting

System Administration: Linux command line, system monitoring, troubleshooting

Networking: TCP/IP, DNS, DHCP, Firewalls

Databases: SQL, MongoDB

Web Technologies: Node.js, HTML, CSS, React

Cloud & DevOps: AWS, Terraform, Jenkins, Docker

Tools & Platforms: Git, GitHub

Projects

Math AI Agent [GitHub]: Developed an intelligent Retrieval-Augmented Generation (RAG) system to assist users with legal queries, case laws, and document analysis. Integrated Google Gemini AI for text understanding and summarization with Pinecone for vector-based semantic search. Designed and deployed a secure backend using FastAPI, featuring fine-tuned prompt workflows for legal data extraction.

Secure File Management System [GitHub]: Developed a Linux-compatible Java application with robust security features. Implemented file system permissions, encryption protocols, and database integration optimized for Linux environments. Included automated backup scripts and system monitoring capabilities.

TCP Chat Application [GitHub]: Created a network-based communication system using Java with multi-threading support. Implemented real-time data transmission protocols and concurrent connection handling. Tested extensively on Linux networking stack.

Recall Matrix – Personal Memory Management System [GitHub]: Built a Linux-optimized web application for file and data management. Implemented system-level integrations, automated categorization, and real-time monitoring. Focused on Linux file system compatibility and resource optimization.

Indian Legal Assistant [Live]: Developed a modern web application for Indian legal assistance with responsive UI and real-time database integration. Deployed the full-stack solution on Vercel with CI/CD pipeline.

Internships

InfraBIM Techno Solution
Software Developer Intern

Remote
05/2024 – 06/2024

- Enhanced ShopTalk mobile app performance through optimized XML UI and layout design.
- Implemented RESTful APIs for data synchronization between mobile and backend services using Node.js.
- Designed PostgreSQL schemas to ensure scalability and efficient data access.
- Improved backend query speed and reduced app crashes by 20%.

InfraBIM Techno Solution

Remote

App Tester Intern

02/2024 – 03/2024

- Automated test cases using Selenium and Python to validate SaaS modules and API endpoints.
- Deployed testing environments on AWS EC2 and optimized data flow between backend microservices.
- Documented and managed test cases using Agile sprint cycles.

InfraBIM Techno Solution

Remote

Full Stack Developer Intern

06/2023 – 07/2023

- Angular Application Development: Built a responsive Angular application for “Open Data - Telangana.”
- Backend Optimization: Improved backend performance by implementing caching and optimizing database queries.

Certifications

2025: Oracle Cloud Infrastructure 2025 Networking Professional (1Z0-1124-25)

AWS Cloud Practitioner (CLF-C02) – KodeKloud Certificate of Completion

2025: Oracle Cloud Infrastructure 2025 Generative AI Professional (1Z0-1127-25)

Coursera – Python for Everybody

Leadership & Extracurricular Activities

Microsoft Learn Student Ambassador

Hyderabad, India

06/2023 – 04/2025

Led technical workshops and mentoring sessions, impacting 500+ students

Community Lead, MRU Developers Group

Hyderabad, India

09/2023 – 04/2025

Organized events and workshops for a community of developers

Achievements

Web-A-Thon Winner: Malla Reddy University (06/2022) – Developed an innovative web solution addressing real-world problems

NanoThon Winner: Malla Reddy University (05/2023) – Created a cutting-edge Web technology-based project

Education

Malla Reddy University

Bachelor of Technology in Computer Science Engineering, GPA: 7.69/10.0

09/2022 – 06/2026

Narayana Junior College

Intermediate in MPC, Score: 848/1000

05/2019 – 03/2021

Narayana School

Secondary School Certificate (SSC), GPA: 8.8/10

03/2019