

ATHULURI AKHIL

Portfolio: athuluriakhil.vercel.app

GitHub: github.com/akhilathuluri

Email: akhil.athuluri30@gmail.com

Mobile: +916281949046

LinkedIn: linkedin.com/in/athuluriakhil

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), Unix
- **Linux Services:** Web servers, DNS configuration
- **Programming Languages:** Java, Python, Bash scripting
- **System Administration:** Linux command line, system monitoring, troubleshooting
- **Databases:** SQL, MongoDB
- **Web Technologies:** Node.js, HTML, CSS, React
- **Cloud & DevOps:** Azure Databricks, AWS, GCP, Kubernetes, Terraform, Jenkins, Docker
- **Tools & Platforms:** Git, GitHub

PROJECTS

- **AWS 3-Tier Architecture Deployment:** Deployed a secure 3-tier web app on AWS using EC2, ALB, Auto Scaling, and RDS across public/private subnets. Validated connectivity between web, app, and database tiers.
- **Math AI Agent:** 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:** 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:** Created a network-based communication system using Java with multi-threading support. Implemented real-time data transmission protocols and concurrent connection handling - essential skills for 24/7 support operations. Tested extensively on Linux networking stack.
- **MemVault – Personal Memory Management System:** 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:** Web-based Legal Tech Solution (Open Source) Tech Stack: Vite, TypeScript, Tailwind CSS, Supabase, Vercel Key Contributions: Developed a modern web application for Indian legal assistance, leveraging a performant Vite frontend with TypeScript Implemented responsive UI components using Tailwind CSS for seamless cross-device accessibility Integrated Supabase for database management and real-time data synchronization Deployed full-stack solution on Vercel with CI/CD pipeline

INTERNSHIPS

- **Aurumi Tech Holdings Pvt. Ltd** Remote
Software Developer Intern 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

- **Oracle Cloud Infrastructure 2025 DevOps Professional (1Z0-1109-25)**
- **Oracle Cloud Infrastructure 2025 Networking Professional (1Z0-1124-25)**
- **AWS Cloud Practitioner (CLF-C02) – KodeKloud Certificate of Completion**
- **Oracle Cloud Infrastructure 2025 Generative AI Professional (1Z0-1127-25)**
- **Coursera – Python for Everybody**

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

- **Microsoft Learn Student Ambassador** Hyderabad, India
 - *Led technical workshops and mentoring sessions, impacting 500+ students* 06/2023 - 04/2025
- **Community Lead, MRU Developers Group** Hyderabad, India
 - *Organized events and workshops for a community of developers* 09/2023 - 04/2025

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** Hyderabad, India
 - *Bachelor of Technology in Computer Science Engineering; GPA: 7.69/10.0* 09/2021 - 05/2025