

Umesh Tiruvalluru

Hyderabad, India | +91 83418 64814 | tiruvalluruumesh@gmail.com | umesh.tech | linkedin.com/in/umeshTiruvalluru | github.com/Umesh-Tiruvalluru

TECHNICAL SKILLS

Languages: Python, Go, JavaScript (ES6+), TypeScript, Bash (Shell Scripting)

Frameworks: React.js, Next.js, Node.js, Express.js, Tailwind CSS

DevOps & Cloud: GitHub Actions, AWS (EC2, S3), Docker, Kubernetes (Basic Troubleshooting)

Databases: PostgreSQL, MongoDB, Supabase, Prisma

Core Concepts: Log Analysis, Process Management, REST API Design, Authentication (JWT), Data Structures & Algorithms

Tools: Git, VS Code, Postman, Figma

EXPERIENCE

AfterQuery Experts

Remote

Software Engineer, Linux & Systems (Contract)

Sep. 2025 – Present

- Architected terminal-based evaluation tasks for Project Pluto, targeting frontier LLM assessment across real-world Linux scenarios including log parsing, process management, and environment troubleshooting.
- Building Terminal-Bench tasks, each passing all 11 platform validation checks with LLM agent pass rates of 1–3 out of 5, matching the intended medium-to-hard difficulty range.
- Constructed Python/pytest test suites to verify task correctness, edge cases, and deterministic behavior, covering both oracle and null agent validations.
- Containerized task environments using Docker with pinned dependencies, producing detailed handoff documentation for independent reviewer validation.

Kinfocloud Tech Solutions

Bangalore, India

Fullstack Intern

Aug. 2024 – Nov. 2024

- Resolved critical defects on a client-facing website, improving page load times and overall user experience.
- Developed and integrated RESTful APIs with MongoDB for secure and efficient data handling.
- Facilitated code reviews and maintained version control workflows using Git and GitHub.

PROJECTS

CozyStay | *Go, PostgreSQL, Next.js, TypeScript, Tailwind CSS, Docker, AWS EC2, GitHub Actions, JWT*

- Engineered a full-stack property booking platform using Go and Next.js, deploying via GitHub Actions CI/CD pipelines on AWS EC2 and reducing manual deployment time by 60%.
- Optimized multi-stage Dockerfiles to shrink image sizes by 45% and accelerate container startup times by 35%, monitoring service availability after each rollout.
- Designed a PostgreSQL schema with role-based access control (RBAC), secured APIs through JWT middleware, and implemented booking workflows with real-time availability checks and automated pricing.

LinkBrain | *React.js, Node.js, Express.js, MongoDB, Tailwind CSS, JWT, REST API*

- Built a MERN stack application for resource organization featuring authentication, tagging, and categorization, achieving a 25% reduction in page load time through frontend performance tuning.
- Implemented JWT authentication with bcrypt password hashing and fortified API endpoints using session management and request validation.

EDUCATION

Geethanjali Institute of Science and Technology

B.Tech, Electronics and Communication Engineering; CGPA: 7.1

Nellore, Andhra Pradesh

Aug. 2019 – May 2023

Narayana Jr College

Class XII; CGPA: 9.63

Nellore, Andhra Pradesh

Aug. 2017 – May 2019

CERTIFICATIONS

Docker Foundations Professional Certificate – Issued by LinkedIn, Sep. 2025

GitHub Foundations – Issued by GitHub, Jun. 2025