

AKSHUN KUTHIALA

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EXPERIENCE

Oracle

Jul 2025 – Present

Application Software Engineer 1

- Reduced GitLab CI container build time by approximately **50%**, from 20 to 10 minutes, through improved layer caching, parallel compilation and image builds, and reduced filesystem overhead.
- Primary contributor to an internal React and FastAPI test orchestration platform that queues test runs and automatically preserves artifacts, eliminating manual handoffs between executions while centralizing log review and environment sharing.
- Designed and delivered framework-wide Cython-based source-code protection for production release images while preserving runtime behavior and Python module compatibility.
- Built TOML-driven packaging profiles for bare-metal and cloud-native deployments, replacing one-size-fits-all production images and excluding unnecessary components.
- Extended the platform with Kubernetes operations and MCP tools, enabling engineers and AI agents to monitor clusters, inspect workloads, update pod images, run diagnostics, and transfer files through a unified interface.

Project Intern

Jan 2025 – Jul 2025

- Improved Python and Robot Framework API reliability by resolving edge cases in file handling, timeout parsing, metrics tracking, error reporting, and telecom call processing.
- Enhanced DNS automation workflows and migrated Robot Framework resource-file logic into reusable Python libraries, improving reliability, maintainability, and code reuse across the test framework.

OPEN SOURCE EXPERIENCE

Google Summer of Code 2024 – Rocket.Chat

Acceptance Letter

- Selected for Google Summer of Code 2024 with Rocket.Chat.
- Developed an API documentation generator to reduce manual documentation work and improve consistency between API documentation and source code.

PROJECT

Voithos | *LlamaIndex, Llama3, Streamlit*

- Built a Llama 3-based multi-agent assistant using RAG, Streamlit, and Google Calendar APIs to support study, wellness, and task-management workflows.

Flipkart GenAI | *Next.js, OpenAI API, Puppeteer, LangChain*

Certificate

- Qualified for Round 2 of Flipkart GRiD 5.0 and built an AI-assisted outfit recommendation system using live product data collected with Puppeteer.

TECHNICAL SKILLS

Languages: Python, JavaScript, C++

Backend and Automation: FastAPI, Robot Framework, REST API design

Frontend: React, HTML, CSS

Cloud and DevOps: Kubernetes, Podman, Docker, GitLab CI/CD, Linux, Git

AI and Agent Systems: Model Context Protocol (MCP), MCP server development, AI agent tool integration

EDUCATION

National Institute of Technology, Hamirpur

2021 – 2025

B.Tech in Computer Science and Engineering

CGPA: 9.1/10