

Atithi Jaiman

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Education

Indian Institute of Information Technology, Dharwad

Dharwad, Karnataka

B.Tech in Computer Science & Engineering — CGPA: 8.05

2023 – 2027

Experience

Trivion Technologies

May 2026 – Jul 2026

Full Stack AI Engineer Intern

- Integrated an LLM API to transform speech transcripts into structured LinkedIn posts with automated content generation.
- Built an audio processing pipeline using FFmpeg for speech-to-text transcription and downstream LLM processing.
- Automated Cron/manual sync with a background worker, preventing duplicates and scheduling LinkedIn posts.

Projects

NEXA – AI Agent GitHub

Apr 2026 – Jun 2026

Tech: Python, LangChain, LangGraph, Ollama, Qdrant, Playwright, PyAutoGUI

- Architected a modular 5-layer agent framework using LangGraph, enabling reliable execution of multi-step tasks.
- Built a unified UI observation engine using Playwright and Windows UI Automation APIs to extract structured interface state in real time.
- Integrated RAG with Qdrant vector storage to ground responses in user documents and prior interactions.
- Designed a tool orchestration layer for browser, desktop, filesystem, and web search actions.

Backend Monitoring System GitHub Blog

Jan 2026 – Mar 2026

Tech: Node.js, Express.js, PostgreSQL, Prisma, Docker, RabbitMQ, Jenkins

- Built a plug-and-play monitoring SDK that asynchronously captures request and system metrics with minimal latency overhead.
- Designed a RabbitMQ-based ingestion pipeline with worker services for reliable high-volume event processing.
- Implemented a threshold-based alert engine for latency spikes and error rates with real-time Slack notifications.
- Automated deployment of containerized services to AWS using Docker and Jenkins CI/CD.

TradeInCase – Trading Simulator GitHub

Oct 2025 – Dec 2025

Tech: React, Express, WebSocket, PostgreSQL, Redis, Docker

- Built a real-time virtual trading platform with live buy/sell execution, order management, and portfolio tracking using WebSocket for sub-second price updates.
- Leveraged Redis for low-latency limit order storage and price matching.
- Implemented a CI/CD pipeline on Azure VM with Docker to automate build and deployment workflows.

Distributed Cache System GitHub

Aug 2026 – Present

Tech: Go, TCP, Goroutines, Consistent Hashing, Distributed Systems

- Engineered an $O(1)$ thread-safe LRU & TTL cache core using Go's `sync.RWMutex` and doubly-linked lists with lazy/active eviction, achieving $\sim 40\text{ns}$ GET/SET latency and zero-allocation key deletion.
- Architected a distributed TCP router with dynamic connection pooling and parallel goroutine-based replication, sustaining $\sim 31,500$ QPS across 50 concurrent clients.

Skills

Languages: C++, Python, Go, JavaScript, TypeScript, SQL

Frameworks & APIs: Node.js, Express.js, React, FastAPI, LangChain, LangGraph, REST APIs

Databases: PostgreSQL, MongoDB, Redis, Qdrant

AI & Automation: Ollama, RAG, LLM Agents, Playwright

DevOps & Cloud: Docker, Jenkins, CI/CD, RabbitMQ, AWS, Azure

Tools: Git, GitHub, Postman, Jest, Prisma, WebSocket

Achievements

- LeetCode Knight with a contest rating of 1850+, ranking among the top 5% of competitors.
- CodeChef 3★ with a peak contest rating of 1665.
- Certified in AWS Educate Cloud 101, validating foundational AWS cloud knowledge.