

ARYAN VIJAYWARGIA

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Education

National Institute of Technology Agartala

July 2019 – July 2023

Bachelor of Technology in Computer Science & Engineering

CGPA: 8.59

Experience

GEP Worldwide

July 2023 – Present

Senior Software Engineer (Jul 2025 – Present) · Software Engineer (Jul 2023 – Jul 2025)

- Built core components of **Leo Agentic Runtime Engine**, a platform that compiles JSON workflow definitions into executable **LangGraphJS** state machines — implemented real-time **Server-Sent Events (SSE)** streaming for token-level agent responses, the tool execution pipeline with **MCP (Model Context Protocol)** integration and session-based connection pooling, and durable Human-in-the-Loop (HITL) interrupt/resume flows backed by MongoDB checkpointing.
- Implemented the multi-provider LLM abstraction layer supporting Azure OpenAI, Anthropic, and Gemini/Vertex AI with unified credential management, recursive schema filtering that separates static and LLM-generated parameters to reduce token costs, and PII detection guardrails — powering GEP's no-code agent builder used by product teams to deploy LLM workflows to production.
- Designed and delivered a **multi-agent orchestration system** for GEP's Time Series / Forecast Collaboration application, featuring an LLM-based Agent Orchestrator (Selector, Response Evaluator, Confidence Scorer, Retry Manager) coordinating specialized Preference, Query, Detail, and Config agents, promoting GEP's AI-first initiative.
- Singlehandedly shipped agentic workflows that automated a recurring user task previously taking **~300 minutes/week**, significantly reducing manual effort for forecasting users.
- Built a recommendation engine for **forecast collaboration**, including frequency-aware (Weekly/Monthly/Daily) pegging logic across measure dimensions, powering MIT-based forecast propagation in **C#/.NET**.
- Developed and maintained **Angular** micro-frontend libraries (**TimeSeriesGridService** and related modules) powering the forecasting UI, and implemented **Change Data Capture (CDC)** pipelines to improve real-time data freshness across enterprise data workflows.
- Delivered high-impact client stories while meeting strict bug-count SLAs; optimized backend services for latency and throughput to improve customer experience.

GEP Worldwide

January 2023 – July 2023

Software Engineer Intern

- Contributed to the Time Series forecasting application within the supply chain domain, writing clean, configurable business logic in **C#/.NET** and **Angular**.
- Implemented algorithms for forecast collaboration workflows and supported senior engineers on recommendation-engine features, earning a full-time offer at the end of the internship.

IHub-Data, IIIT Hyderabad

July 2022 – December 2022

Machine Learning Intern

- Developed a web application to detect potholes and triple-rider violations in real-time video feeds from dash cameras.
- Used a YOLOv5 pretrained model to improve detection accuracy and efficiency, reducing false positives by **20%**.
- Built a **REST API using Flask** for real-time detection and classification, with SQLite for data storage and retrieval.

Projects

Continua | Go, PostgreSQL, React/TypeScript, Python, River, sqlc

September 2025 – Present

- Architected an **event-sourced durable workflow engine** with lease-based activity scheduling, cross-schema projection, and remote activity workers — enabling fault-tolerant orchestration of long-running agentic tasks across distributed Python workers.
- Built a high-throughput **async ingest pipeline** with batch-key idempotency, out-of-order dependency resolution, **River job queues** (ingest, rollup, cleanup workers), project-scoped multi-tenancy, and cursor-paginated read paths across **28 REST endpoints** and **21 PostgreSQL migrations**.
- Developed a production **Python SDK** with a thread-safe batch queue, decorator-based tracing (**@trace**, **@span**), remote activity worker with heartbeat/lease lifecycle, and configurable sync/async ingest modes for staged rollout.

Technical Skills

Languages: C#, Python, JavaScript/TypeScript, C/C++, SQL

Frameworks & Libraries: .NET, Angular, TensorFlow, PyTorch, Flask, OpenCV, Scikit-learn, Dash

AI / Agentic: LLM-based agent orchestration, multi-agent systems, prompt engineering, Claude Code

Concepts: Change Data Capture (CDC), distributed systems, time series forecasting, micro-frontends, REST APIs

Developer Tools: Git, GitHub, CI/CD