Sri Sai Teja Guduru (TJ)

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Experience

Northeastern University | Software Engineer (Infra & Automation) **Jan 2024 – April 2026**

- Reduced Kubernetes cluster log volume by **80%** from **85TB** by implementing **Fluent Bit** (log collector agent) filter pipelines to drop debug and trace logs at the collector level, combined with **Datadog** exclusion filters and SLO-based alerting, while maintaining full observability across critical services.
- Configured **Nautobot** (network source-of-truth platform) managing **1,500+ network devices** across 150+ campus sites, automating device discovery, config templating, and compliance validation to reduce manual config errors by **85%**.
- Resolved production timeouts caused by a third-party API with no server-side filtering, implementing a paginated polling loop with exponential backoff to reliably ingest **100,000+ records** per sync.
- Integrated **AKIPS** (network performance monitoring platform) with **Nautobot** via REST APIs to automate asset discovery and inventory sync, implementing conflict resolution and idempotency checks across **10,000+ infrastructure records**.
- Replaced 5 deprecated ERP integrations with modern REST pipelines and migrated **100,000+ records** from legacy systems, cutting turnaround time by **60%** and eliminating manual intervention entirely.
- Configured **RAG pipelines** and **agentic AI workflows** for an enterprise AI assistant, grounding responses in internal knowledge bases and automating multi-step service resolution across **150,000+ AI-assisted interactions**.
- Grew **7 interns** from onboarding to shipping production bug fixes and features independently within **6 weeks**.

UST | Software Engineer **July 2022 – July 2023**

- Deployed **multi-tenant infrastructure** serving **3 enterprise customers**, configuring access controls and process isolation with **zero cross-tenant data leaks** across 12 months of operation.
- Built backend integration workflows connecting **SAP**, **Active Directory**, and **Microsoft Teams** via async REST pipelines, processing **1,000+ requests/month** and reducing manual handling time by **80%**.
- Migrated **100,000+ records** from legacy systems via ETL pipelines with deduplication and coalesce rules, validating referential integrity across **15 related tables** to prevent data corruption.
- Built a **Playwright**-based E2E test automation framework covering multi-step workflows, dynamic field lookups, and async REST calls, improving coverage where native tooling had gaps.
- Authored integration architecture docs and deployment runbooks, reducing engineer onboarding time and cutting production support requests by **40%**.

Projects

OpenProject MCP Server | *Go, Claude Code, Terraform, AWS EKS, Kafka, PostgreSQL, Istio, Tailscale, Jenkins*

- Developed a **Model Context Protocol server** in Go using **Claude Code** for AI-assisted development, exposing project management operations as LLM-callable tools with dual transport (stdio + HTTP/SSE) over **Tailscale** for zero-config mesh networking without public exposure, achieving **sub-200ms p95 latency** across **20+ endpoints**.
- Developed a review checklist for AI-assisted code covering idempotency enforcement, typed error boundaries - catching AI hallucinations and missing edge cases before staging, enabling same-day deploys without rollbacks.
- Provisioned all infrastructure with **Terraform** (VPC, EKS, RDS, MSK, IAM) and CI/CD via **Jenkins** for self-hosted pipeline control, with multi-arch Docker builds, semantic versioning, and automated rollbacks on failed health checks.
- Deployed on **AWS EKS** with **Kafka** for durable replayable webhook ingestion under burst traffic and **Istio** for mutual TLS (zero-trust service encryption) without application-layer changes, load-tested at **65M+ webhook events** over 3 months with **99.5% uptime** under burst and chaos scenarios.

Education

Northeastern University | Master of Science in Computer Software Engineering **Aug 2023 – May 2026**

Algorithms, Databases, Artificial Intelligence, Natural Language Processing, Cloud Computing, Distributed Computing

Technical Skills

Languages	Python, Go, JavaScript, SQL, Bash
AI/ML	Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), LangChain, Prompt Engineering
Infrastructure	Linux, Docker, Kubernetes (EKS, GKE), Helm, Terraform, Ansible, Kafka, Nginx
Cloud & DevOps	AWS (EKS, EC2, VPC, S3, RDS, IAM, Route 53), GCP, Jenkins, GitHub Actions
Databases	PostgreSQL, MySQL, Redis
Observability	Datadog (APM, Logs, Dashboards), Fluent Bit, OpenTelemetry