Chinthan P

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Professional Summary

Software Engineer with **3+ years of experience** building scalable, reliable cloud-native systems and data platforms. Skilled in distributed pipelines, service integrations, and data models for high-volume workloads, with a focus on performance, operational excellence, maintainable code, and measurable cost efficiency.

Technical Skills

Languages: Python, SQL, PySpark, Spark SQL, Bash
Systems & Data: Apache Spark, Kafka, Delta Lake, Databricks, Apache Airflow, AWS Step Functions
Cloud & Infrastructure: AWS (S3, Glue, Athena, Bedrock, Rekognition, Lambda, EMR), GCP (BigQuery, Dataflow), Docker, CI/CD, Git
AI/ML: LLM applications, agentic workflows, RAG, LangChain, LangGraph, Hugging Face, Vector Databases

Professional Experience

Software Development Engineer Dec 2025 – Present
Nykaa — Ads Platform, Backend & Data Infrastructure *Bengaluru, Karnataka, India*

- Built an AI-powered asset-ingestion and review pipeline using AWS Bedrock and Rekognition, eliminating ∼**12 hours/week** of manual review across **5,000+ records/run**; embedded automated schema validation and multi-stage quality gates to maintain a **99%+ data-evaluation SLA**.
- Architected a platform-agnostic PLA Dynamic Query pipeline on Databricks, replacing legacy sources with deduplicated query data; cut runtime from **15 to 4 minutes** and compute cost per run by **87–95%**, while enabling parallel Fashion execution.
- Rebuilt the **Campaign Manager (CM)** Ads Daily Generator as a config-driven, concurrent `for_each` platform for Beauty and Fashion; reduced monthly Databricks usage by **71%** (1,867→547 DBU), halved runtime, and reduced new-vertical onboarding from **2–3 days to 2–4 hours**.
- Increased production reliability across **3 ad-serving workflows** by launching centralized Argus observability, sale-aware P0/zero-impression alerts, CPD max-slot notifications, and timezone-correct Delta upserts for realtime budgets.

Software Development Engineer Mar 2023 – Dec 2025
ClearDemand — Machine Learning Platform *Chennai, Tamil Nadu, India*

- Owned end-to-end ingestion and transformation pipelines for **10+ enterprise customers**, converting raw S3 drops into schema-governed, Athena-queryable datasets using AWS Glue and partitioned storage.
- Designed curated pricing and catalog data models for analyst and ML workloads; improved average Athena query latency by **40%** through partition-layout and sort-key optimization.
- Automated a **90-minute** catalog-matching workflow to **under 20 minutes** using AWS Step Functions and Mistral tool-calling agents, reducing manual data-cleaning effort.
- Reduced annual AWS spend by **$19.5K** through lifecycle policies and compute right-sizing; strengthened CI/CD with staged rollouts and canary checks, cutting cross-region integration failures by **25%**.

Machine Learning Intern May 2022 – Aug 2022
Ideas2IT Technologies *Chennai, Tamil Nadu, India*

- Delivered a containerized object-detection inference pipeline with **90% accuracy**, validating **10,000+ daily requests** under enterprise latency requirements.

Projects

Multi-Agent GenAI Workspace | *Python, LangChain, LangGraph, MCP, FastAPI, ChromaDB* GitHub

- Built a unified multi-agent system orchestrating web search, tool-calling, and RAG-based retrieval through a LangGraph ReAct pipeline with MCP server integration.
- Designed a modular tool registry and dynamic routing layer, enabling new data sources to be integrated without changes to core orchestration; deployed as a FastAPI service.

AI-Powered Disaster Assessment System | *Python, PyTorch, Siamese Networks, FastAPI* GitHub

- Trained Siamese neural networks on paired satellite imagery for building-damage classification, achieving **85% accuracy**.
- Designed a scalable ingestion and inference pipeline with contrastive and BCE loss, a FastAPI serving endpoint, and checkpoint-based model management.

Education

Vellore Institute of Technology (VIT) Jun 2019 – Aug 2023
B.Tech. in Computer Science Engineering *GPA: 8.5 / 10* *Chennai, Tamil Nadu, India*