

Param Teraiya

Founding-stage software engineer with 5+ years building AI agent infrastructure, cloud observability, and full-stack platforms. Specializes in context engineering, agent orchestration, and MCP-based systems, with a history of taking products from 0 to 1 and shipping ML diagnostics and high-performance APIs in production.

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EXPERIENCE

Caylex, Founding Engineer

Jan 2026 – Present

- Founding engineer for the **agentic infrastructure** of a platform that lets production AI agents connect to, orchestrate, and govern enterprise systems over MCP, including the server discovery-and-connection flow.
- Shipped the **MCP onboarding pipeline** (CLI and skill) that health-checks and publishes servers hands-free via **DCR self-registration**, plus a **classifier** that scores each tool's impact and flags security risks.
- Built **context-engineering systems**: **Context Maps** that give agents a memory of what lives in each connected tool (Linear, Notion, Slack), and a **Skills** framework with **progressive context disclosure** that loads capabilities only when needed.
- Built the **security and governance layer**: a **Tool Permissions & Risk console** (risk ratings, severity filtering, bulk-disable, overrides) and a **Security Findings UI** with advisory fixes and alerts.
- Delivered **end-to-end observability** (internal, customer-facing, and **LLM tracing** of prompts, tokens, latency, cost) and built **Caylex Backoffice**, the internal staff console for onboarding, jobs, feature flags, and data cleanup.

TheAgentic, Full-Stack AI Engineer

Jun 2025 – Dec 2025

- Took a **vertical AI platform from zero to one** at an early-stage startup, shipping core product capabilities across product design, backend, frontend, and AI engineering.
- Designed and implemented the **AI agent infrastructure** for production use cases (deep-reasoning agents, tool-calling pipelines, and orchestration workflows) on scalable **Python** and **TypeScript** full-stack systems.
- Partnered closely with founders and customers to **rapidly prototype, iterate, and launch** AI-powered workflows for vertical-specific business problems.

Middleware Labs Inc (YC W23), Senior Software Engineer

Nov 2023 – May 2025

- Shipped **ML-based Log Clustering**, improving RCA speed by **60%**, reducing incident resolution from **hours to minutes** for large-scale cloud environments.
- Built **Model Context Protocol (MCP) server** that streams logs and traces to LLMs, giving every debugging prompt real-time observability context.
- Created a **Root Cause Analysis AI Agent** that pinpoints failure sources and proposes code/config fixes.
- Led development of **AI-powered diagnostic tools**, including:
 - **Log Anomaly Detection** for early issue identification.
 - **Natural Language Query Tool** enabling SREs to query logs and infrastructure data in plain English. ([article](#))
 - **Time-Series Forecasting & Outlier Detection** to improve alert accuracy for cloud-native platforms.
- Delivered **production-grade APIs and frontends** for the platform's log module.

Bloom Logic Inc, Senior Software Engineer

Oct 2023 – Nov 2023 (contract)

- Built a **Python data-pipeline and scheduler framework** that continuously syncs third-party sources into **BloomChat AI**, keeping its knowledge base fresh.
- Improved data quality and reliability with **Pydantic validation** across FastAPI endpoints, preventing schema drift and ensuring clean handoffs between microservices and downstream pipelines.

Webocult Technologies Pvt. Ltd, Software Engineer

Jan 2021 – Sep 2023

- Led a **client-facing team** to ship feature updates, manage change requests, and resolve production issues.
- Built **backend APIs and deployment pipelines** for computer vision systems handling **live streaming data** at scale, supporting **warehouse automation** and AI/cloud R&D.

INTERNSHIPS

Crear Electronics Pvt. Ltd, Machine Learning Engineer

Jun 2020 – Jul 2020

- Built and deployed **furniture recognition models** using deep learning on AWS.

Leading India AI, Machine Learning Intern

May 2020 – Jun 2020

- Developed **Hyperspectral Image Reconstruction** from RGB algorithms.

SMART Foundry (DST, Government of India), Intern

Jul 2019 – Mar 2020

- Module E (Process Monitoring and Data Analytics): integrated **sensor-based data pipelines** for **real-time process monitoring** in manufacturing.
- Developed permeability and viscosity tests using IoT sensors and microcontrollers.

TECHNOLOGIES AND LANGUAGES

Languages:

Python, JavaScript, Go, NodeJs, ReactJs

Frameworks:

FastAPI, Flask, Django, Express, AdonisJs

Databases:

PostgreSQL, MySQL, MongoDB, Redis, ClickHouse, Chroma DB, Qdrant

Messaging:

Kafka, Redpanda, Celery, Redis, RabbitMQ

Tools:

AWS, Docker, Git, Apache Airflow, Kubernetes, Poetry, OpenCV, YOLO, NLTK, CrewAI, Agno, MCP

AI/ML Tools:

Numpy, Pandas, Scikit-learn, TensorFlow, PyTorch, HuggingFace, LangChain, LlamaIndex

Area of Expertise:

Backend Engineering, Machine Learning, DevOps, MLOps, LLMs, AI Agents

PROJECTS

MCP Server Classifier: *Capability & risk analysis for MCP servers*

- Analyzes an MCP server and its tools, scores each tool's impact, and flags security risks.

Forklifts & Pallets: *Computer vision for warehouse automation*

- Built a **high-throughput backend** using **Kafka**, **FastAPI**, **MongoDB**, and **Azure**, handling **millions of live-stream events hourly**.

Memory Lens: *AI-powered photo sharing platform*

- Designed the **AI engine and backend APIs** using **NodeJs**, **PostgreSQL**, **Vector DB**, and **AWS**, enabling **real-time image sharing at Lاراcon India 2023**.

Peer2peer: *Federated learning platform*

- Developed **cross-platform worker apps** in **Go** and **Python**, automating **model training and data exchange** across distributed nodes.

EDUCATION

Marwadi University, B.Tech (ICT) 2017 – 2021

- Majors: Information & Communication Technology (ICT), CGPA 8.07/10