

EKJOT SINGH

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PROFESSIONAL SUMMARY

Systems Architect and Founder with expertise in building scalable AGI systems, distributed infrastructure, and high-performance ML pipelines. Proven track record in architecting deterministic reasoning frameworks and optimizing GPU utilization using PyTorch and CUDA. Adept at leading cross-functional teams and implementing Agile/Scrum methodologies to deliver open-source solutions like Tealbase and Metanthropic AI.

EDUCATION

Vellore Institute of Technology <i>Bachelor of Technology - B.Tech, Computer Science</i>	Vellore, India Sep 2024 – Sep 2028
<ul style="list-style-type: none">– CGPA: 9.07 / 10.0– Specialized in Artificial Intelligence and Systems Engineering.– Relevant Coursework: Distributed Systems, Advanced Algorithms, Operating Systems, Neural Networks.	

EXPERIENCE

Metanthropic AI <i>Founder & Lead Systems Architect</i>	Remote Nov 2025 – Present
<ul style="list-style-type: none">– Architecting an independent AGI research lab; pioneered a deterministic reasoning framework that reduces hallucination rates in LLMs by enforcing strict logic constraints during inference.– Engineered high-throughput training pipelines using PyTorch and Custom CUDA kernels, optimizing GPU utilization for large-scale transformer models.– Developed novel Intrinsic Safety scaling laws, bridging biological intuition with digital reasoning to create mathematically bounded AI systems.– Spearheaded a distributed research team, establishing CI/CD workflows for reproducible ML experiments and model versioning.	
Tealbase <i>Founder & Principal Engineer</i>	Remote Aug 2025 – Present
<ul style="list-style-type: none">– Designed and implemented a high-performance, open-source BaaS (Backend-as-a-Service) mirroring Firebase's DX but built on the robustness of PostgreSQL and Go.– Engineered a Change-Data-Capture (CDC) system to power realtime websocket subscriptions, handling thousands of concurrent connections with sub-100ms latency.– Implemented an automated REST API generation engine that parses Postgres schemas to instantly provision typed endpoints, reducing boilerplate code by 90%.– Architected enterprise-grade security middleware featuring JWT-based auth and row-level security (RLS) to ensure multi-tenant data isolation.	

PROJECTS

The Digital Boardroom – <i>Python, FastAPI, Multi-Agent Systems</i>	Dec 2025
<ul style="list-style-type: none">– Engineered a multi-agent consensus engine orchestrating Blind Peer Reviews between GPT-4, Claude 3.5, and Gemini Pro to eliminate single-model stochasticity.– Developed a Chairman synthesis module that aggregates divergent reasoning paths into a single high-fidelity output, improving reasoning accuracy on complex tasks.– Optimized API orchestration latency using asynchronous task queues to handle parallel agent inferences.	
Azhn – <i>TypeScript, Node.js, SVG</i>	Aug 2025
<ul style="list-style-type: none">– Developed a high-performance rendering engine that compiles HTML/CSS directly into scalable SVGs, eliminating the need for headless browser snapshots.– Implemented server-side rendering optimizations for Open Graph image generation, reducing generation time by 40% compared to Puppeteer-based solutions.	
Buttery-Auth – <i>Node.js, MongoDB, Docker</i>	Jul 2025
<ul style="list-style-type: none">– Engineered a containerized authentication microservice supporting OAuth 2.0, Magic Links, and secure session management.– Implemented automated JWT rotation and secure cookie handling to mitigate XSS and CSRF attacks.	

TECHNICAL SKILLS

Languages: Rust, Go, Python, C++, Java, TypeScript, SQL (PLpgSQL), Elixir

Core Competencies: Distributed Systems, Systems Architecture, High-Performance Computing, API Design

AI & ML: PyTorch, CUDA, TensorFlow, Transformers, Mechanistic Interpretability, Scikit-Learn

Infrastructure: Docker, Kubernetes, Redis, PostgreSQL, Nginx, Linux/Unix

Leadership & Soft Skills: Agile/Scrum, Team Leadership, Cross-functional Collaboration, Strategic Planning

Web Technologies: Next.js, React, Tailwind CSS, Framer Motion, WebSockets

PUBLICATIONS

Dataset Distillation for the Pre-Training Era (2025): Proposed Linear Gradient Matching to condense massive datasets, optimizing pre-training efficiency.

The Platonic Representation Hypothesis (2025): Research note analyzing the convergence of diverse foundation models towards shared latent representations.