Hareet Sandhu

Denver, CO • hareet.sandhu@gmail.com • github.com/Hareet

Applied AI Engineering Lead, with a background in site reliability engineering

hareet.ai

Come talk to my AI twin about my work and my life. It's built in the open, so you can see how I build AI that is secure, cost-effective, and observable.

LOCAL MODELS FIRST • A REAL-TIME COST METER • A $5-A-DAY KILL SWITCH • EVERY DATA FLOW DISCLOSED

Medic — **Applied AI Engineering Lead**, previously SRE Lead

Jul 2018 – Nov 2026

The nonprofit behind the open-source Community Health Toolkit (CHT), used in 24 countries. Six governments run their national community health systems on it, including Kenya's and Uganda's eCHIS.

Medic's AI strategy

designed and led

Over the last two years, I designed the strategy with our CEO, around the two tracks below, and led its implementation.

Buildtime AI — around the CHT, for the people who build on it

cht-agent — designed, architected, built

A multi-agent system in production for cht-core and cht-conf, with human validation checkpoints.

Agentic data layer — built

CHT Docs and Code Context MCP servers, plus custom-curated agent-memory of all CHT domains that keeps learning.

On-call agent squad

- **agent-watchdog** Monitors all CHT projects, updates the team and lets them interact with it, summarizes alerts for partners, and builds a knowledge base on correlated alerts and user feedback. It has secure, read-only access to non-sensitive metrics. — built
- **claude-medic-aws** Security-first, read-only infrastructure agent. It contains our best DevOps practices, to help our non-technical partners deduce infrastructure issues. — designed
- **Agent orchestrator** A supervisor over both agents, for knowledgeable summaries of all project and infrastructure incidents: on demand, routinely, and ready to serve to our community. — configured

No-Code CHT Configuration — designed, architected

Making CHT's technical configuration usable by non-technical users. I designed the goal, built out the community team, managed stakeholder perspectives, and architected the AI systems. AWS 2026 Breaking Barriers finalist; AWS IMAGINE Grant 2026 finalist.

Runtime AI — inside the CHT, for health workers

Voice for CHT — designed

The health worker speaks the visit and the form fills itself, offline. I designed the idea, found the team, helped them fine-tune models to 273 MB to run beside the app on rural 4 GB Android phones, and built Medic's side.

Smart Task Prioritization — designed, architected

I designed and architected GPS-based task prioritization for health workers, and architected the AI systems that carry its configuration across the platform to every project. AWS IMAGINE Grant 2025 winner.

SRE Lead

2018–2024

I led the national-scale rollout, deployment, and procurement strategy, trained and localized DevOps practices for six governments and their Ministry of Health departments, architected CHT for AWS, GCP, and local data centers, and containerized the whole application in the 3.x-to-4.x migration.