

Karan Kapur

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EDUCATION

University of Wisconsin-Madison

Bachelor of Science in Computer Science and Data Science, Minor in Entrepreneurship

Madison, WI

May 2026

EXPERIENCE

Data Analyst

08/2026 - Present

Wisconsin Union

Madison, WI

- Replaced the team's old scheduling software with an app I shipped in 2 days, used daily by 250+ employees: 4,400+ shifts, self-serve accounts, and work chat; built on TypeScript, MySQL, Docker, and AWS.
- Forecasted weekly food demand and staffing from sales and shift data in Excel to guide orders and schedules.

Co-Founder & Cloud Storage Engineer

04/2026 - Present

thaw

Madison, WI

- Cut LLM session cold boots on H100s ~386x, from ~340s to a 0.88s median fork: co-founded an open-source inference startup (Rust, CUDA) with N. Matteson and M. Yu.

VP, National Executive Council

03/2026 - Present

Kappa Eta Kappa

Remote

- Converted a 50+ school TAM into 2 chartered and installed chapters: built a Python scraping pipeline that found universities without a professional engineering fraternity, sourced contacts, and ran the outbound.

Software Engineer

01/2026 - 05/2026

Eurofins Scientific

Madison, WI

- Shipped a forecasting product lab technicians used daily: partnered with Eurofins as a client through UW-Madison, interviewed technicians and chemists across 4+ business units, and took it to production.
- Turned 10K+ messy records into forecasts with confidence scores: built the ETL pipelines, PostgreSQL schema, Python FastAPI backend, and React frontend; iterated on operator feedback.

Automation & Compliance Engineering Intern

07/2024 - 09/2024

HCLSoftware

Noida, India

- Lifted onboarding conversion 30% via an analytics-driven redesign; 50+ tests shortened regression 60%.

PROJECTS

Delivery Doctor (solo build) | Agent telemetry transport verifier | github.com/karank2512/delivery-doctor 10/2026

- Reproduced 9 delivery failure modes end to end: canary replay read back from intake catches auth, expired-key, schema, buffer, network, rate-limit, too-large, timeout, and overflow failures.

Foreman (solo build) | Agentic workforce platform | github.com/karank2512/Foreman

09/2026

- Lowered cost per run 30% vs an all-LLM pipeline on a 100-record paired benchmark: routed 5 of 7 steps to deterministic code, taking LLM calls per run from 11 to 6 (list prices).
- Ran every agent in propose mode: workers research and draft, nothing leaves the workspace without a human approver, and slipping workers get replaced by versioned candidates.

RelayIQ (solo build) | Agentic decision engine | github.com/karank2512/RelayIQ

07/2026

- Held writes to exactly once under retries and duplicate deliveries: idempotent webhook handling and an auditable SQL ledger of every credit spent.
- Achieved 3.3x lower cost per usable lead on a 495-case seeded benchmark: built a multi-step agent that routes each field to the best-fit enrichment provider API and only spends a credit when it's worth it.

TECHNICAL SKILLS

Languages and Stack: Python, TypeScript, SQL, Rust, C++, Next.js, React, FastAPI, PostgreSQL, Docker, AWS

AI and Agents: LLM tool calling, human approval, LLM-judge evals, RAG, MCP, Claude Code and Codex daily

GTM and Tools: HubSpot APIs, webhooks, exactly-once processing, GitHub Actions CI, Clay (familiar)