

NAKUL GUPTA

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SUMMARY

Founding AI Engineer with 4+ years building production AI, backend, and data systems. First engineering hire after Theo AI's Head of AI; focused on legal-document intelligence, LLM agent workflows, email intake, case matching, enterprise SSO, and client-facing legal-tech deployments.

SKILLS

Languages: TypeScript, Python, Java, SQL, Rust, R

Backend / Cloud: Bun, Node.js, Hono, FastAPI, Spring Boot, Inngest, Docker, GCP Cloud Run, GCS, AWS, S3, Kafka, Tauri, Ratatui

AI / Data / Security: LLM agents, coding agents, RAG, OpenAI, Anthropic Claude, Google Gemini, Vertex AI, LangChain, PostgreSQL, Supabase, Neo4j, OpenTelemetry, Honeycomb, SAML SSO, RLS, Mailgun

EXPERIENCE

Founding AI Engineer

Jun 2025 - Present

Theo AI

- Build production legal AI systems for email intake, document understanding, case matching, graph-backed retrieval, and source-attributed case views across mass-tort and general-counsel workflows.
- Designed graph-backed intake architecture linking emails, attachments, parties, claims, events, matters, and evidence snippets so downstream agents retrieve context from normalized legal entities instead of raw inbox text.
- Developed case-matching algorithms that combine deterministic identifiers, normalized legal entities, bounded evidence retrieval, Gemini verification gates, and LLM fallback to attach intake emails to active legal matters.
- Optimized LLM case-matching and case-update workflows with deterministic fast-lane matching, bounded evidence retrieval, cache-aware prompts, and impact gating, reducing benchmark pipeline cost 52%, case-matching cost 39%, and improving matcher throughput 53%.
- Partnered directly with 3Step and SaveMart stakeholders to map intake operations, source systems, document taxonomies, lifecycle fields, OneDrive inputs, TPA connector data, and desired output formats into engineering requirements.
- Built enterprise SAML SSO support for a dedicated deployment serving the world's largest law firm, including Supabase SAML validation, org/provider mapping, first-login product provisioning, and single-tenant SSO override flows.

Machine Learning Research Assistant

Nov 2024 - May 2025

Kelley School of Business, Indiana University

- Built Python data-processing and ML analysis pipelines for logistics operations, transforming forklift maintenance data for mediation analysis and business-facing operational insights.

Software Engineer

Jun 2021 - Jul 2023

Scry AI

- Built Java/Spring Boot ingestion services for industrial IoT workflows using MQTT, CoAP, Kafka, SQL, and cloud storage integrations; processed 1M+ NEOM data points through production pipelines.
- Designed a SQL-backed H2 data-retention plugin that reduced storage overhead by 60%, and mentored an intern and junior engineer on backend delivery practices.

SELECTED PROJECTS

Beehive | [GitHub](#)

Open-source Contributor

- Co-designed and contributed to an open-source coding-agent orchestration app for isolated git workspaces, built with React, TypeScript, Tauri, Rust, Ratatui, Crossterm, and xterm.js.
- Implemented concurrent clone, copy, and delete operations across CLI, TUI, and GUI flows using background execution, Tauri events, operation state tracking, and non-blocking UI updates.
- Improved developer ergonomics with cursor-aware text input, arrow-key navigation, default-branch selection, and graceful comb creation across terminal and desktop interfaces.

Airline Agentic RAG | [GitHub](#)

Personal Project | 15 hrs

- Developed an agentic airline support system using LangGraph, TypeScript, SQL, React, and AWS for flight, hotel, excursion, and rental-car booking workflows.
- Implemented multi-agent handoffs, tool-calling flows, SQL-backed itinerary state, and policy-grounded retrieval to support booking, change, cancellation, and customer-support requests.
- Built and deployed a React interface that exposed agent responses, itinerary context, and structured workflow states for end-to-end travel support.

EDUCATION

Purdue University - Master of Science in Computational Data Science

May 2025