

Jake McInerney

Full-Stack Software Engineer — LLM & Agentic Systems

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SUMMARY

Full-stack engineer with 4 years building data-platform products — including production AI-assisted features at Epicor — now specializing in LLM integration and agentic systems: local-first RAG pipelines, MCP tooling, and human-in-the-loop agents with measured run costs. Theatre-trained communicator, comfortable owning the room in demos and client conversations.

SKILLS

Languages: TypeScript, JavaScript, SQL, HTML/CSS

Frontend: React, Vite, Zustand, MobX, Tailwind, Sass, Highcharts

Backend: Node, Express, Postgres, REST API design, service-layer architecture

Infra / DevOps: Docker, AWS, Snowflake, GitHub Actions CI/CD, nginx, Cloudflare, Linux server admin

AI / LLM: agentic tool-use loops, RAG (embeddings, retrieval, dedup), MCP servers, local runtimes (LM Studio, llama.cpp, Ollama), Anthropic & OpenAI-compatible APIs, prompt/context engineering, human-in-the-loop design, cost observability

EXPERIENCE

Independent Software Engineer & Consultant — Remote

March 2026 – present

- Designed and built a local-first **agentic-RAG intake system**: a tool-use agent on a local LLM turning unstructured reports into deduplicated, human-approved tickets — semantic retrieval, fail-safe approval gates, cost telemetry separating measured from assumed (see *Projects*).
- Built a from-scratch **MCP server** exposing a production-style app to Claude Code as first-class tools, plus the CI guardrails (4 workflows incl. automated LLM code review) behind an agent-driven dev process: 264 commits across 23 active days, 235 AI-co-authored, every change ticketed, tested (1303 tests), merged through gated PRs nobody can bypass — since extracted into **ticket-workflow**, now driving four repos from one board.

Software Engineer — Aegle Capital

September 2025 – February 2026

- Brought a TypeScript frontend and Golang backend into alignment with a **parallel type contract**, consolidated the UI into extensible components, kept third-party packages up to date, and built out an initial templated test suite for the frontend.

Product Developer — Grow.com (Epicor), Remote

July 2022 – September 2025

- Owned the frontend of Grow's greenfield Data Platform end-to-end — ingestion (Salesforce, HubSpot, Google Sheets, Postgres, CSV; millions of rows) through the Snowflake data lake to Highcharts visualization and secure data sharing.
- Built the data-transformation UX, including a **production AI-assisted mapping flow** matching ingested data onto user-defined schemas — shipped LLM-powered product features before specializing in them.
- Designed a non-destructive visualization pipeline: users drill into and chart cleaned data without mutating the source, preserving data-lineage integrity. Built the Node/Express/Postgres endpoints behind these UIs, and partnered with product management to scope customer requests into shippable features.

Earlier career

- Rental property owner-operator (2018–2025) · professional theatre, incl. Disney Cruise Line mainstage (2014–2018) — the communication and composure training behind the demo and client skills above.

PROJECTS

Agentic Kanban — AI-native project system · github.com/mcinerneyjake/kanban

- Markdown-backed kanban board operated end-to-end by AI agents: an MCP server for Claude Code, a local-first agentic-RAG intake agent (runs air-gapped; costs marked measured or assumed), and an AI-first create flow in the React UI.
- Engineering process as artifact: hook-enforced branch-per-ticket workflow, executable definition-of-done, and CI gating typecheck, lint, 1303 Vitest tests, branch-name, Claude code review, and Playwright e2e.

Portfolio site · jakemcinerney.dev

- Vite+React on hand-provisioned infrastructure: DigitalOcean droplet, nginx, Cloudflare Full-strict TLS, GitHub Actions atomic deploys. Hosts case studies and an interactive replay viewer of real agent runs.

EDUCATION

Prime Digital Academy — Full Stack Software Engineering Certificate

2022

Minnesota State University, Mankato — BFA Musical Theatre, Magna Cum Laude

2014