

// AGENTIC SYSTEMS & ORCHESTRATION

- **Claude Code / Claude Agent SDK** — custom slash-command tooling, sub-agent fan-out, scoped permissions
- **Multi-agent relay architecture** — Worker/Sleeper handoff, polling watchers, threshold-based relay-out, state-file checkpointing
- **Stateful pipeline design** — status taxonomies, queue management, resumable mid-batch runs
- **Model Context Protocol (MCP)** — tool integration and connected-service access
- **Prompt & context engineering** — role assignment, scope-bounding, clarification protocols

// MEMORY & KNOWLEDGE SYSTEMS

- **File-based persistent memory** (Karpathy / Obsidian pattern) — typed memory files, frontmatter schemas, index-driven recall
- **Multi-domain vault architecture** — per-domain knowledge bases with routing rules and navigation contracts
- **Retrieval-oriented synthesis** — research-to-vault pipelines, deduplication, relevance scoring

// AUTOMATION & PIPELINES

- **n8n** — LLM-routed document pipelines, multi-pathway conditional routing, PDF population, email delivery
- **Python data pipelines** — pandas, matplotlib, Power Query ingestion, scheduled weekly reporting (in production)
- **API orchestration** — REST integration, Supabase REST writes, third-party data ingestion

// CORE ENGINEERING

JavaScript

TypeScript

Python

SQL

React

React Router

Vite

Node.js

Express

Supabase / Postgres

MongoDB

MySQL

Prisma

Sequelize

Git

AWS

Linux

Figma

WordPress

Resmaker

IN PRODUCTION

Multi-Agent Application Pipeline · Creator / Systems Engineer

Claude Agent SDK · multi-agent relay · stateful queue · file-based memory

- › Designed an end-to-end agentic pipeline that runs the full job-search loop autonomously: **discovery** (filtered job-board sweeps), **research** (per-company profiles and fit scoring), and **tailored resume generation**, each a discrete agent command with its own contract.
- › Engineered a **relay system** that lets a Worker agent hand off mid-batch to a parked Sleeper agent — polling watcher, state-file checkpointing, threshold-based handoff, resumable continuation — so long batches survive context limits without losing work.
- › Implemented a status-taxonomy state machine over a markdown queue, enabling idempotent batch runs that pick up exactly where they left off.
- › Built a persistent **file-based memory layer** carrying framing strategy, preferences, and project history across sessions, so each run inherits accumulated context instead of starting cold.
- › Authored custom slash-command tooling with scoped behaviors, including a no-interrupt mode for unattended generation.

Guildmaster

DEPLOYED

Autonomous Research & Database-Write Agents · Creator / Systems Engineer
Claude Agent SDK · Supabase / Postgres REST · relay batch processing ·
React + Vite portal

- › Built an agentic research base where agents run live web searches, synthesize findings, and **write structured rows directly to a production Supabase Postgres database** via authenticated REST calls — autonomous create operations, not draft suggestions.
- › Implemented an **idempotency layer** so agents detect already-inserted records and refuse to duplicate, making batch runs safe to re-execute.
- › Designed a sourcing agent that confirms hiring status, identifies booking paths, constructs typed payloads, and inserts one record per distinct path.
- › Wired the same relay handoff contract used in Resmaker, proving the orchestration pattern **generalizes across domains**.
- › Shipped the member-facing side as a deployed React/Vite portal backed by Supabase, giving members dynamic access to the data the agents curate.

Trainman / Brains

IN PRODUCTION

Cross-Repository Shared Memory Architecture · Creator / Systems Engineer
file-based memory · multi-domain vaults · routing contracts

- › Architected a **shared-memory system** in the Karpathy/Obsidian lineage spanning multiple active repositories, so independent agents across separate domains read and write to a coherent long-term memory.
- › Defined a typed memory schema (**user / feedback / project / reference**) with frontmatter descriptions used for relevance-based recall and **[[wikilink]]** cross-references between facts.
- › Established per-vault routing and navigation contracts so any agent entering a domain loads that domain's structure and conventions before acting.
- › Treats memory as append-and-revise: agents check for existing coverage before writing, update in place rather than duplicate, and delete facts proven wrong.

Icebreaker Forms

IN PROGRESS

LLM-Routed Legal Document Pipeline · Creator / Project Engineer
n8n · conditional routing · PDF population · email delivery

- › Built an n8n automation that **parses intake responses, routes a user across multiple document pathways, populates the appropriate legal PDFs with submitted data, and delivers completed forms by email** — collapsing a multi-step manual legal process into a single submission.
- › Designed the routing around real case requirements gathered with Union Migrante immigration-triage volunteers, reflecting actual divergences in what each family must file.
- › Building bilingual support (English/Spanish; Haitian Creole and French planned) to serve users in crisis without language as a barrier.
- › Targeted at the loved ones of ICE detainees — a high-stress population that makes correct routing and tone a hard requirement.

LEAN / LSU / Operation Spark

IN PRODUCTION

Automated Air-Quality Data Pipeline · Data Processing & Reporting
Analyst (Contract)

Python (pandas, matplotlib) · Power Query · scheduled weekly reporting

- › Operate a **weekly automated pipeline** that ingests data from four distributed AQMesh sensors, cleans it through configured Power Query transforms, runs Python visualization scripts, and assembles publication-ready reports for an LSU-partnered community-science project.
- › Maintain the pipeline against **upstream schema drift** in the sensor export format — diagnosing broken query steps and repairing transforms without breaking downstream consumers.
- › Run and refine matplotlib/pandas scripts producing time-series and wind-rose plots for CO, TVOC, H2S, SO2, and PM1/2.5/10 with consistent labeling and high-resolution output.
- › Demonstrates **production Python** in a paid, academically-supervised setting on a recurring cadence.

Talkin' About It — Web Developer (Contract)

Mar 2026 – Present

Designed and shipped a three-page responsive site with a full custom design system, vanilla-JS hero carousel, embedded podcast player, RankMath SEO, and GA4. Retained for ongoing maintenance. [End-to-end shipping and client delivery.](#)

New Orleans Musicians' Union — Web Developer (Contract)

Oct 2025 – Feb 2026

Diagnosed and repaired a legacy WordPress system, proposed a remediation plan to a board hierarchy, and executed the approved scope: plugin modernization, CSS conflict resolution, automated backups, payment-platform analysis. [Navigating org structure, shipping inside approved bounds.](#)

Operation Spark — Certification, IBC: JavaScript, Functional Programming, Web Development III

// agentic view of the work · full-stack and civic-tech views available
on request //