

Huajun Chen

Forward Deployed Engineer · Applied AI · Full-Stack

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Authorized to work in the U.S. — no sponsorship required.

Applied AI and software engineer, **17 years** shipping production systems in government and enterprise — including three and a half years embedded inside a client's engineering organization as a consultant — and most recently as a solo founder. The work I do now is the work I want to keep doing: alongside the people doing the job, on software that changes how they work and is still running years later. I have argued clients out of the solution they arrived with more than once, and out of a requirement entirely when the evaluation said so. Founded and solo-shipped **ACLogics**, an LLM diagnostic product for HVAC technicians live on iOS and Android, growing 30–50 new technicians per week with zero paid acquisition.

EXPERIENCE

ACLogics — aclogics.com

2024 – Present

Founder & Solo Engineer

Python · TypeScript / React / React Native · Convex · PowerSync · Cloudflare R2 · GPT & Gemini APIs · Sentry · Axiom · Maestro

- **Shipped a production AI diagnostic application end-to-end**, iOS (Mar 2026) and Android (Jul 2026). Signups ran about three technicians a week for the first month. I replaced a text-entry field almost every user skipped with a nameplate camera path, then made that path the first thing anyone sees — in the app and in the store screenshots. Now 30–50 a week, all organic.
- **Turned troubleshooting knowledge into a verifiable pipeline**. Embedded directly with field technicians and evolved a single-prompt answer into a generator → auditor pipeline feeding deterministic decision trees, with explicit Pass/Fail criteria at every step — the pattern that let a first-year tech and a fifteen-year tech follow the same procedure.
- **Built an automated prompt regression evaluation suite** gating every pipeline change: safety gates, edge-case diagnoses, and JSON schema correctness must pass before deploy. Prompt changes stopped being a matter of opinion.
- **Owned data governance end to end**. 99-day live retention derived from the product's three-month history promise; account deletion rebuilt as an asynchronous pipeline after direct deletes began timing out mid-run — strips name, email, and per-job site addresses first, then archives de-identified records to R2. Team accounts are isolated per company.
- **Rebuilt observability** after aggressive instrumentation exhausted the Sentry quota and the telemetry itself began dropping events: routed warnings to traces and logs to Axiom, leaving Sentry only real errors, and drove down redundant backend calls to hold cost flat as usage grew.
- **Rebuilt the app offline-first on PowerSync over Convex**. A hand-rolled SQLite cache kept breaking because there was no real sync layer underneath it. I spent two weeks clearing out the old code into a clean intermediate version, then a month migrating onto PowerSync; it has been stable since — a diagnosis now runs start-to-finish in a zero-bar mechanical room and syncs later.
- **Shipped agent skills and scheduled autonomous coding agents** as production infrastructure: an adversarial bug-finder that pays a rival vendor's model to tear down every finding, a working-backwards planner that splits a plan into a press release and a build spec, a translation runbook that batches missing Lingui strings through a cheaper model and audits each one for overflow, and an unattended mobile E2E harness that triages every failure into app-bug vs. harness-bug.
github.com/chen5656/huajun-shared-skills

City of Garland

2025 – Present

GIS Lead

JavaScript · Python · SQL Server · ArcGIS Enterprise / Experience Builder

- **Overruled the requested design on the Animal Services pet finder**. The ask was a map with every animal plotted on it; I argued that the citizen's real question is *is this one mine*, and made a status-grouped list with a photograph on every row the instrument beside the map. Shipped, self-updating, and taking citizen lost/found reports every month since — endorsed by the department head. experience.arcgis.com

- **Cut restaurant inspection publishing from a 5–20 day lag to real time.** Citizens and management had to wait for the final PDF report the legacy inspection software produced days after the visit; now the draft is visible immediately and the data stays current — a change management asked for and endorsed. Nobody read the legacy database directly because nobody could: 200+ undocumented tables with no one left who knew them, and no schema access. I scripted sample pulls — ten rows per table over the window I needed — and mapped the fields by working backward from real published reports, which made direct reads possible. Data validation, automated ArcGIS deployment, and frontend: one week end to end. maps2.garlandtx.gov
- **Redesigned the zoning-notice site and its schema** after finding staff were manually deleting old cases to keep the page readable — history destroyed for the sake of a render. Rebuilt to retain everything and moved the decision into the display: status-grouped accordion sidebar, cases held under History for 90 days past the notice period, then archived out of the site but kept in the database. Added a dashboard on the record that now existed.
- **Enabled a non-programmer to build her own automation.** I helped a GIS analyst identify which of her routines was worth automating and how to work with the model on it; she built the AI-assisted Excel macro entirely on her own from scratch, which remains in active use today.

Cognizant — embedded at FM Global, commercial property insurance

2021 – 2025

Senior Developer

[React](#) · [TypeScript](#) · [Python](#) · [Azure](#) · [ESRI JS API](#)

- **Ran the evaluation that retired the automated utility-pole extraction requirement.** Off-the-shelf detection APIs were not accurate enough; ESRI's own tooling was not either. I surveyed the alternatives, recommended and demoed SAM-GEO (a segmentation model that traces objects out of aerial imagery), and established that high accuracy required imagery sharper than the project could obtain at any defensible price. Recommended stopping; the requirement was retired rather than funded.
- **Led development of a React/TypeScript geospatial curation platform** used by risk analysts to verify property ownership, boundaries, entrances, area, and exposure. Street-level and high-resolution aerial imagery sit beside the parcel geometry in the same view, so an analyst settles a boundary question without leaving the map or opening a second tool.
- **Engineered a four-stage Python actuarial property-valuation pipeline** deployed on Azure, carrying a property from raw ingestion and cleansing through multi-source API enrichment and spatial analysis to a finished valuation report.

City of Garland

2013 – 2021

GIS DBA & Developer

[Python](#) · [Oracle](#) · [SQL Server](#) · [ArcGIS Enterprise](#) · [JavaScript](#)

- **Ran the city's public-facing GIS for eight years, including the years it was tested.** Citizen web applications and a real-time vehicle-tracking app on top of the databases I administered; a Python integration pulling Waze's live traffic feed into the city's internal operations map, so staff saw current road conditions beside the city's own data; and ESRI disaster response through the 2015 Christmas tornadoes and the 2020 pandemic.

City of Dallas

2009 – 2013

GIS Analyst

[Python](#) · [VB.NET](#) · [ArcGIS](#)

- **Built a VB.NET inspection scheduler and the Python pipeline behind it.** Inspectors planned their own daily workload in the scheduler while it held every job site to its required inspection interval; the Python side took what they brought back from the field and loaded it into the database.

EDUCATION

M.S., Geographic Information Sciences — University of Texas at Dallas (2009) | **B.S., Urban and Rural Planning** — Peking University, Beijing (2006)