

BRAEDEN KEENA

Self-Taught Builder • Production Scrapers • Data Pipelines & Automation

Overland Park, KS 66213 • Braeden@thekeenas.com • (303) 507-8626 • nacup.us • findstorage.pages.dev

Self-taught technical builder — I ship production scrapers, data pipelines, and automation. Three deployed, live web applications in the past 14 months, built end to end: API reverse-engineering, data pipelines, front-end, SEO, and daily automation. Backed by a decade of hands-on operations leadership managing teams of up to 100 people. I learn whatever a problem requires, then build the thing.

SHIPPED PRODUCTS (SOLO-BUILT, END TO END)

WiFi CSI RF-Fingerprinting Sensor Array — ESP32 + Python DSP *2026 • Deployed / Live • Firmware / DSP*

- Deployed and running 24/7 as the live, in-production home-security system for my own apartment — not a benchtop experiment. Built by applying the scientific method to a hard RF problem: hypothesized that a radio's crystal-oscillator imperfections form a hardware fingerprint that survives MAC-address randomization, then proved through controlled experiments that device identity can be recovered from clock behavior rather than spoofable network identifiers.
- Built the full stack solo — ESP32 firmware (C / ESP-IDF) plus a Python DSP pipeline (RANSAC phase-slope fits → 1D Kalman drift tracking → Mahalanobis discrimination against per-source Gaussian models) — reaching 12.7σ and 10.4σ cross-manufacturer device separation on a 6/6 holdout, and 99.7% holdout accuracy across 7,497 windows on a single receiver (95.7% across 14,234 windows spanning two receivers), over a 2.36-million-frame dataset.
- Diagnosed thermal oscillator drift as the accuracy-limiting problem and engineered a novel reference-beacon drift-correction technique that cancels receiver-side drift and more than doubled device separation — turning an unstable measurement into a reliable fingerprint.

nacup.us — Live World Cup 2026 Fan Hub

2026 • Founder / Developer

- Designed, built, and deployed a full-stack production site in 48 hours; reached first-page organic search traffic within 24 hours of launch with 700+ visitors on day one during a live global event.
- Multi-source data pipeline (Google Places API, RSS, news scraping, live scores REST API) with dedupe/merge logic, trust-tier scoring, and freshness decay ranking across 38 host-city feeds.
- Programmatically generated 80+ static SEO pages with JSON-LD structured data, sitemap, and Search Console integration; live-score polling with caching and fallback states.
- Stack: Python, vanilla JavaScript, Leaflet.js, Cloudflare Pages, GitHub CI/CD.

findstorage.pages.dev — Nationwide Self-Storage Directory

2025 • Founder / Developer

- Daily self-scraping national self-storage pricing directory and market-research tool tracking ~4,600 stores / ~43,900 units — a 7-pass discovery scraper with safety rails that aborts a publish if the store count drops below a floor or swings >10% run-over-run.
- Nationwide ZIP3 market analysis with matched-pairs attribute pricing (isolated a ~18–22% climate-control premium via same-store/same-size comparison), a “renter leverage” score, and per-store price-history drill-down.
- Survived a real operator merger that added ~1,100 stores overnight without breaking; now on Cloudflare Pages, auto-refreshed daily via GitHub Actions.

Chrostory — Full-Stack Web App

2025 • Founder (launched & sunset)

- Took an original product from concept to public beta solo and validated it with 40+ real users; made the call to sunset it and applied the lessons — faster shipping, SEO-first architecture, automated data — directly to the two larger launches that followed.

Discord Community Platform & Bots

2019 – Present

- Grew a community from zero to 3,500+ active members; built custom Python bots with NLP features to automate moderation and support e-commerce operations.
- Active in the KC Meshtastic (LoRa mesh networking) community — help plan node placement and RF coverage, troubleshoot member setups, and exchange design approaches with others building custom mesh networks.

TECHNICAL SKILLS

- **Languages:** Python (scraping, data pipelines, automation), JavaScript, SQL, HTML/CSS

- **Web & Data:** REST APIs, API reverse-engineering, static site generation, technical SEO, Leaflet.js mapping, JSON data architecture
- **DevOps:** Git/GitHub, CI/CD (Cloudflare Pages, Netlify), Windows task automation, scheduled data refresh systems
- **Hardware/IoT:** ESP32 firmware (C / ESP-IDF), ESP-NOW & BLE, I2C peripherals, sensor networks, 3D printing & CAD (OpenSCAD)

OPERATIONS & LEADERSHIP EXPERIENCE

10+ years of front-line operations and team leadership — including founding and operating my own business — managing teams of up to 100 people across high-volume service environments, staffing, and vendor coordination.

Independent Technical Consultant

7/2026 - Present

- Build and ship production scrapers, data pipelines, and automation — turning messy public and web data sources into clean, scheduled, queryable datasets and dashboards (see shipped projects above).

Crossing Guard Operations Supervisor — All City Management Services (ACMS)

2023 - 2025

- Hired, trained, and managed 50 crossing guards across 33 sites — 66 posts staffed twice every school day — holding ~25% annual turnover in a category known for severe churn.
- Coordinated daily across five constituencies (county sheriff, school principals, parents, the district, and the guards) and solved same-day coverage through a deep bench of on-call relationships — every student returned home safely, zero students injured across my full tenure.

Bartender — Tabard's Kitchen

2019 - 2020

- Ran the full lunch service solo as the only front-of-house staff — bartending, serving, taking and firing orders, running payments, and holding food-safety standards through the rush.

Founder / Sole Operating Partner — Honey Lake Motocross Park, Milford, CA

2016 - 2018

- Acquired and revived a ~500-acre desert motocross park dormant since 2007 — bought with two capital partners as the sole operating owner — and re-entitled it for racing after the prior owner had lost county approval and stripped the site: new survey, environmental review, a water well drilled under budget, and a heavy-equipment track rebuild.
- Directed a 120-person race-day crew built largely on in-kind pay with no payroll budget (peak ~6,500 attendees); designed and staffed the on-site medical program that executed a mid-event helicopter evacuation without incident.
- Held full P&L — pricing, sponsorship, staffing, and marketing — and founded the Corey Herring Memorial race, which continued annually through 2023; exited by selling my stake.

EDUCATION

GED — State of Kansas, 2014. Everything since: self-taught, project-driven, and shipped to production.