

Ryan Jones

AI Systems Engineer · Full-Stack Developer · Designer

Seattle, WA · tekthree@gmail.com · pixeljones.com · linkedin.com/in/ryantekjones
· github.com/Tekthree · USAF veteran

SUMMARY

I design it, build it, and built the AI system that runs the shop. Fifteen years as a solo consultancy owning every phase, brand and UX through engineering and deployment, currently 20 concurrent client engagements. That only works because I built and hardened a multi-agent orchestration layer that enforces security boundaries on every tool call, grades its own output before I see it, and stops for human approval before anything executes. Six years in Air Force logistics before that taught me to design for the failure, not the happy path.

TECHNICAL

AI SYSTEMS	Multi-agent orchestration, tool and function calling under least privilege, RAG, context engineering, evaluator design, prompt injection defense, model-agnostic gateway design, MCP server integration, human-in-the-loop approval design
LANGUAGES	JavaScript (ES6+), TypeScript, Python, PHP, SQL
PYTHON	Pydantic for schema validation on model output, FastAPI, asyncio, automation and data pipelines
WEB	React, Next.js, Astro, Node.js, Webflow, WordPress, Tailwind, HTML5, CSS3
DATA	PostgreSQL, Supabase, Neon, MySQL, MongoDB
DESIGN	UI/UX, brand identity systems, Figma, Adobe Creative Suite (Photoshop, Illustrator, InDesign), responsive and mobile-first design, WCAG 2.1 AA accessibility, print and environmental collateral
MARKETING	Technical SEO and Search Console audits, Google Ads (search and Performance Max), Google Business Profile, analytics, content and blog strategy, conversion-focused landing pages
PRACTICE	Git, test-driven development, CI/CD, REST APIs

EXPERIENCE

Owner, Lead Engineer · Pixel Jones Feb 2010 to Present

Independent software and design consultancy. Sole operator, every phase of every project. Seattle, WA.

- Run 20 concurrent client engagements alone by building an AI orchestration layer that executes routine work while every consequential decision routes through a human approval gate
- Built and hardened a multi-agent harness: 43-procedure skill library, persistent cross-session memory, per-agent tool allowlists, and four security gates on every tool call (secret access, exfiltration, destructive operations, and a human approval gate on anything touching money)
- Designed an evaluation layer that separates producing output from judging it, some checks deterministic and some a second model prompted to judge instead of produce, catching confidently wrong results before they reach a person
- Instrumented the system with append-only tool-call logging, then audited three months of that data against its own documentation and found the health checks reported 32 of 32 passing while scheduled jobs had never once executed. Rewrote them to test whether things ran, not whether files existed
- Own every phase for each client, brand identity and UX through engineering and deployment, so they coordinate one person instead of a designer, a developer, and an agency
- Ship production React, Next.js, Astro, and Webflow applications across beauty, hospitality, events, and retail, plus the brand systems, campaign design, and SEO behind them

Digital Media Manager · Shameless Productions

Mar 2015 to Present

Independent Seattle live events company. Seattle, WA.

- Build and maintain the event website, including an automated import pipeline that pulls listings from external ticketing platforms so events publish without manual entry
- Design all promotional material across recurring event series, and built scripted templates so a new flyer in a series is a config change instead of a rebuild
- Run SEO, paid campaigns, and all promotional design across every show, giving a company with no in-house creative team a consistent brand presence

Logistics Management Specialist · United States Air Force

Aug 2002 to Aug 2008

- Six years active duty managing supply chain operations and cross-functional coordination where a process failure is not something you get to undo. Combat Oriented Supply Operations (28th Logistics Readiness Squadron), Field Combat Logistics (732nd Expeditionary Security Forces Squadron), TCN Management (160th Signal Brigade)
- Honorably discharged, campaign ribbon. Veterans preference eligible.

SELECTED SYSTEMS

Pixel, the AI operations harness

Python and Node. Model-agnostic by design, so the underlying model is a configuration change, not a rewrite. Runs daily against paying client work.

Polymarket prediction pipeline

Five-agent pipeline: scan, research, predict, assess risk, approve. XGBoost paired with an LLM for calibration, and a hard human gate before execution.

JungleBaby\$, household finance application

Next.js, Supabase, Plaid bank sync. Two models routed by cost and capability: a fast one for transaction classification, a stronger one for document parsing and insights. Live, with users and money moving through it.

Autonomous lead generation pipeline

Scrapes business listings, a vision model evaluates and qualifies each site, and qualified targets get a generated redesign demo, a live preview deploy, and a drafted email referencing that preview. Every stage hands off without human intervention.

EDUCATION

Full Stack Software Development Certificate, Code Fellows, Seattle

2021

Code 401 advanced track: JavaScript, Node, React. Admission requires prior development experience.

Visual Communications, Bangkok University

2011