

James Lane

AI Product and UX Engineer | Design Engineer | Interactive Prototyping

Carlisle, PA | 717-701-7089 | tiburo13@gmail.com | linkedin.com/in/james-lane-1051291a9 | github.com/Angry-TacoZ | jamesai.space

PRODUCT DESIGN PROFILE

Career-changing AI product builder focused on designing polished user-facing systems around how people make decisions, understand AI output, and move through complex workflows. Combines product thinking, interaction design, responsive frontend implementation, and AI system design across React, TypeScript, Vite, Firebase, FastAPI, and LLM-enabled workflows. Strongest work translates ambiguous operational problems into clear interaction models, evidence-rich interfaces, human review paths, and working prototypes.

FUNCTIONAL CAPABILITIES

- AI Product and Interaction Design: User flows, interaction models, decision-support UX, progressive disclosure, human-in-the-loop design, explainability, inspectable memory, user agency, workflow states, prototype storytelling.
- Frontend Product Engineering: React, TypeScript, JavaScript, Vite, Framer Motion, responsive interfaces, component-based UI, local state, Firebase Hosting, browser-local storage, accessible interaction patterns.
- AI Experience Design: LLM-assisted workflows, retrieval-backed interfaces, deterministic and generative hybrid systems, source grounding, bounded automation, review and override loops, visible evidence and constraints.
- Rapid Prototyping and Validation: Turns rough concepts into working demos quickly, then verifies behavior with linting, type checks, tests, builds, browser inspection, Playwright, and live deployment checks.
- Systems and Workflow Translation: Maps complex business rules, dependencies, edge cases, and user decisions into understandable product experiences without hiding important constraints.

TOOLS AND TECHNOLOGIES

Design / Frontend: React, TypeScript, JavaScript, Vite, Framer Motion, responsive UI, component systems, HTML/CSS

AI / Product Systems: ChatGPT, Claude, Codex, Gemini, prompt/RAG design, retrieval, agent workflows, memory UX, evaluation, human review

Backend / Platform: Firebase Hosting/Functions/Auth/App Check, FastAPI, Python, PostgreSQL, pgvector, SQLite, Cloudflare Workers, REST/JSON APIs

Delivery / Quality: Git, GitHub, pull requests, GitHub Actions, CI/CD, Vitest, Playwright, ESLint, pytest, secret scanning, deployment verification

FEATURED PRODUCT AND UX CASE STUDIES

Blue - Ambient AI Shopping Agent Concept | React, TypeScript, Vite, Framer Motion

- Designed an ambient retail AI interaction model that accompanies product browsing instead of forcing the shopper into a separate chat panel.
- Built inspectable, editable, reversible browser-local memory and a comparison control that shows how remembered needs change recommendations.
- Designed the decision experience around three understandable tradeoff directions rather than a single opaque best answer.
- Created a restrained visual system, motion behavior, fictional product data, and a desktop-first interaction surface built around deliberate shopper actions.
- Portfolio: github.com/Angry-TacoZ/best-buy-blue-concept

Delivery Composer - AI-Assisted Consulting Staffing Workflow | React, FastAPI, PostgreSQL/pgvector, Gemini-ready

- Designed a multi-stage workflow that turns an unstructured client brief into requirements, candidate evidence, recommendation review, override, revision, and re-evaluation.
- Created candidate comparison UX that exposes score deltas, evidence, eligibility gates, considerations, and tradeoffs while keeping the final decision with a human delivery leader.
- Designed visible systems state around Identify, Define, Execute, Assure, and Learn so the interface communicates where the user is in the workflow.
- Built interaction patterns for approval, revision feedback, prior-versus-current deltas, exception handling, and evidence inspection instead of treating AI output as a terminal answer.
- Portfolio: github.com/Angry-TacoZ/delivery-composer

ADDITIONAL PRODUCT AND AI BUILD EVIDENCE

- CogFit Jobs: Designed and shipped an explainable AI work-fit interface that turns a structured profile and job posting into visible fit dimensions, confidence, evidence, and improvement guidance.
- James AI Living Resume: Built a recruiter-facing, source-grounded portfolio assistant with React/Vite, Firebase Hosting/Functions, verified resume data, and voice guidance.
- PDF Equipment Checker: Designed a deterministic document-validation tool and hosted upload flow for comparing equipment schedules against plan drawings.
- Responsible Vibe Coding Playbook: Published a practical AI-assisted development workflow centered on inspect-before-edit, explicit trust boundaries, scoped implementation, verification, and traceable deployment.

TRANSFERABLE EXPERIENCE

AI Product Builder | JamesLaneAI.com | 2025 - Present

- Design and build AI-enabled products, workflow tools, frontend concepts, and portfolio prototypes from problem framing through working implementation.
- Translate business problems into user-facing workflows, explicit decision points, bounded automation, and reviewable product behavior.

Claims Examiner I | Capital Blue Cross | 2025 - 2026

- Designed a PHI-safe AI assistant pilot for complex claims workflows, including source grounding, linked-step navigation, human review, governance boundaries, and structured A/B evaluation.

Help Desk Analyst L1.5 / Enterprise Systems Support | ICU Medical via Randstad | 2018 - 2025

- Supported more than 3,000 enterprise users across Microsoft 365, Active Directory, Azure AD, Oracle EBS, VPN/VDI, and ServiceNow.
- Converted recurring support friction into scripts, macros, technical documentation, escalation templates, and workflow improvements.

USER AND DOMAIN PERSPECTIVE

Earlier work across Best Buy, hhgregg, OfficeMax, Verizon/GoWireless, automotive retail/service, and other customer-facing environments provides firsthand perspective on how people shop, compare products, ask for help, and move through real-world service workflows. This background is especially relevant to consumer product UX, retail technology, automotive experiences, and AI-assisted decision tools.

EDUCATION AND CERTIFICATIONS

High School Diploma | Hephzibah High School

Certifications: AI Fluency: Framework and Foundations (Anthropic) | Generative AI Fundamentals (Databricks) | Business Analysis Foundations