

NATHAN ONIMIYA

AI PRODUCT DESIGN ENGINEER | STAFF / PRINCIPAL PRODUCT DESIGNER

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PROFILE

AI product design engineer and design leader who turns ambiguous AI capabilities into trusted, production-ready systems. Combines product strategy, interaction design, enterprise design systems, coded prototyping, and hands-on TypeScript implementation across agentic procurement, document intelligence, fintech, telecom, and operational software. Strongest where teams must connect model behavior, complex workflows, human review, and implementation quality.

SIGNATURE WORK - OBJECT-ORIENTED DESIGN FOR AI INTERFACES

- Created an operating method for complex AI interfaces using condition grids, an object registry, and two-hop change-impact analysis to make product state and implementation consequences explicit.
- Converted design intent into two tiers of agent-executable handoff tickets, pairing interaction rationale and state coverage with implementation-ready constraints.
- Applied the method across design work to create a shared operating model between design and engineering.

EXPERIENCE

BEROE INC - Senior Product Designer

Oct 2024-Present

- Lead product design for agentic procurement workflows, including conversational orchestration, confidence and uncertainty, human review, partial completion, recovery, and handoff states.
- Designed a custom syntax and interaction framework that makes confidence, partial completion, recovery, and handoff states explicit.
- Introduced AI-assisted prototyping and design-to-code workshops so design and engineering could validate working interactions earlier.

CABOO - Founder & Design Engineer · Venture / Self-employed

Jun 2025-Present

- Designed and shipped Caboo Snap, a production TypeScript/Hono/Postgres system that turns brochures, listings, menus, guides, and manuals into source-grounded AI Passports used through the AI assistant a customer already has.
- Built the document compiler and knowledge architecture that preserve provenance, unknowns, tables, and visual evidence while producing provider-specific handoffs for ChatGPT, Claude, Gemini, and other assistants.
- Built an MCP-capable AgentGateway with discovery resources, tenant-aware routing, sessions, elicitation, tool-change notifications, and search, booking, and action tools; dogfooded the complete business-to-booking loop through a live advisory-service tenant.

MTN NIGERIA - Senior Product Design Manager

Nov 2021-Nov 2024

- Led design-system creation, governance, and engineering across multiple app verticals, including reusable component libraries, token architecture, and cross-product redesign.
- Led and mentored product designers while improving design-to-engineering consistency across MTN's product ecosystem.
- Introduced common product and delivery standards to improve interface consistency and delivery across product teams.

EARLIER EXPERIENCE

DRIVEME FLEET SERVICES - Senior Product Designer, Mar 2021-Apr 2022. Designed the internal driver-onboarding architecture supporting 1,000+ signups in a platform that completed 700,000 trips; modularized cross-application handoff.

RUNBUGGY - Senior Product Designer (Freelance), Feb 2019-Mar 2021. Re-architected driver onboarding from one week to under 30 minutes; designed trip acceptance and tracking flows that reduced failed pickup errors.

MEANINGFUL GIGS - Senior Product Designer (Contract), Aug 2018-2020. Designed and built a no-code designer job portal and recruited 15 senior designers through direct network development.

KISI - Product Designer (Part-time), Feb-Oct 2018. Designed onboarding, marketing, illustration, animation, email, and editorial systems for a connected-access platform.

ALAT BY WEMA - Product Designer, Oct 2017-Mar 2018. Designed mobile-fintech, card-customization, and back-office experiences used across 60 branches during a period that reached 350,000+ app downloads.

MCKINSEY & COMPANY - Designer, Feb-Sep 2017. Synthesized research with 1,200+ participants across 10 universities and designed digital onboarding and back-office concepts for a digital bank.

CAPABILITIES

AI product strategy · Agent and copilot interaction design · Human review and recovery · Product design engineering · TypeScript · React/TSX · Hono · PostgreSQL · MCP · LLM APIs · Retrieval, grounding and provenance · AI evaluations · Design systems and tokens · Figma · Git and pull requests · Claude Code and Codex · Product leadership

EDUCATION

UNIVERSITY OF BENIN - Bachelor's degree, Computer Science