

Ronald Barnhart

Senior Product Engineer (0→1, AI, & Mobile) Austin, TX | (330) 814-4605 | ronald@aibaker.io
linkedin.com/in/ronaldbarnhart | github.com/AgentBurgundy | aibaker.io

Professional Summary

Senior Product Engineer with 8+ years of experience specializing in greenfield (0→1) development and shipping user-centric products. A full-stack builder (React/Node/Postgres) who moves fast, sweats the UX details, and builds high-scale systems. Proven ability to architect event-driven backends processing millions of daily requests while delivering intuitive, premium frontend experiences.

Featured Shipments (Projects)

Full-stack products conceived, designed, and deployed to production.

Stanly.io | Founder & Lead Engineer

- **Mission:** Automated, agent-led abandoned cart recovery for e-commerce.
- **Agentic Architecture:** Engineered an **autonomous agent** workflow that processes incoming email replies using a **ReAct (Reason + Act)** pattern.
- **Tool Use & Orchestration:** Built a system where the agent autonomously executes Shopify API calls (product lookups, dynamic discount generation) to resolve customer objections without human intervention.
- **Self-Correction:** Implemented a multi-step "Draft-Review-Send" pipeline where a secondary LLM layer audits drafted responses for tone and accuracy before delivery.
- **Scale:** Handles a high-throughput event pipeline processing **millions of webhooks** and thousands of automated agent interactions daily.

vldt.ai (Validate AI) | Founder & Lead Engineer

- **Mission:** Automate the startup validation process using Generative AI.
- **Build:** Engineered a full-stack engine that ingests user ideas and autonomously generates comprehensive design docs, competitor analyses, and landing page flows.
- **Tech:** Next.js, OpenAI API (Chain-of-Thought prompting), Postgres, Tailwind.

Wellspring | Mobile Developer

- **Mission:** A consumer-facing React Native app for iOS and Android.
- **Build:** Shipped a calm, high-performance mobile experience with a focus on smooth animations, offline-first capabilities, and fast iteration cycles based on real user feedback.
- **Tech:** React Native, Expo, Node.js backend.

PracticeInterview.ai | Product Engineer

- **Mission:** Create a realistic interview simulator using voice-to-voice AI.
 - **Build:** Integrated **OpenAI Whisper** for real-time speech transcription and GPT-4 for dynamic context generation, achieving a conversational latency of <800ms.
 - **UX:** Designed a seamless "hands-free" user interface that mimics the pressure and flow of a real interview environment.
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Professional Experience

BambooHR | Senior Front End Software Engineer Austin, TX (Remote) | May 2022 – Present

- **Product Impact:** Lead engineer on critical customer-facing HR workflows. Focused on high-fidelity UX implementation and performance, reducing load times by **25%** through code-splitting and asset optimization.
- **Developer Experience:** Spearheaded the internal adoption of AI tools (Copilot, Cursor), creating a "bias for action" culture that increased shipping velocity across the team.
- **Systems Scale:** Architected reusable UI primitives and component libraries that ensure design consistency across a massive enterprise application.

Tensure Consulting | Senior Software Engineer Austin, TX | May 2021 – May 2022

- **Greenfield Architecture:** Acted as the technical lead for 0→1 enterprise builds. Translated ambiguous client needs into concrete technical specs and shipped full-stack solutions on Google Cloud.
- **Mentorship:** Established CI/CD pipelines and code quality standards, mentoring junior engineers on writing clean, reliable TypeScript.

S&P Global Market Intelligence | Software Engineer II Richmond, VA | Dec 2018 – May 2021

- **Data Visualization:** Built complex, high-performance financial charting tools using D3.js and React for high-volume data feeds.
- **Reliability:** Implemented end-to-end testing strategies (Cypress) that improved deployment confidence and reduced regression bugs by **40%**.

Hyland | Software Developer Westlake, OH | Jun 2017 – Nov 2018

- Contributed to enterprise content management systems, building automation frameworks that reduced manual testing time by **50%**.
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The Loadout (Technical Skills)

- **Core Stack:** TypeScript, JavaScript (ES6+), React, Next.js (App Router), Node.js, HTML/CSS.
- **Scale & Infra:** Redis (BullMQ), PostgreSQL, Google Cloud (Pub/Sub), Docker, Terraform, Serverless functions.
- **Mobile:** React Native, Expo, iOS/Android deployment.
- **AI Engineering:** OpenAI API (GPT-4, Whisper), LangChain, Vector Embeddings, Prompt Engineering.

- **Tools:** Git, GitHub Actions, Figma (Design Systems), Vercel.