Dustin Smoote

Creative Developer | Full-Stack Software Engineer

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U.S. work authorized | Available for remote freelance and contract engagements

PROFESSIONAL SUMMARY

Creative Developer and Full-Stack Software Engineer with 7+ years of experience partnering with agencies and product teams to build production-scale software, motion-rich interfaces, real-time 3D experiences and interactive installations. Works across front-end architecture, back-end services, APIs, data systems, CMS integrations and cloud delivery, with ownership from system design through final interaction and performance refinement.

TECHNICAL SKILLS

Frontend, Mobile and Motion: TypeScript, JavaScript, React, Next.js, Vue, Nuxt, React Native, Expo, GSAP, Tailwind CSS

3D and Interactive: Three.js, React Three Fiber, WebGL, GLSL, Unity, real-time rendering, shader development, interactive installations

Backend, Data and APIs: Node.js, NestJS, Python, Django, REST APIs, GraphQL, WebSockets, PostgreSQL, Prisma, Supabase, Firebase

AI and LLM Systems: OpenAI API, LangChain.js, Weaviate, retrieval-augmented generation

Cloud and DevOps: AWS, Modal, Docker, GitHub Actions, CI/CD

Development Tooling and Testing: Webpack, FFmpeg, Playwright, Jest

CMS and Design Platforms: Sanity, Brightspot, Craft CMS, Wagtail, Webflow, Figma, Adobe Photoshop

PROFESSIONAL EXPERIENCE

Independent Contract Practice | *Creative Developer and Full-Stack Software Engineer* | 2024-Present | Remote

Left Field Labs | *Creative Developer and Full-Stack Engineer, Contract* | 2025-Present

- Built responsive UI, CMS-driven content and motion for Google Flow's marketing site and subscriber dashboard using Next.js, TypeScript and GSAP; translated static designs into performant interactions for a product used daily by thousands of users.
- Developed front-end systems and motion for Google Health, Google Cloud's AI agent marketplace, xrp.org and the Left Field Labs studio site, working across Brightspot, Sanity and custom CMS integrations.
- Owned middleware APIs, Meta AI and printer integrations, Firebase storage, CI/CD, a GPU-backed cloud compositing pipeline and the results web app for two Meta installations at UFC Freedom 250; the installations served thousands of guests during a two-day event without issues or downtime.
- Built the middleware, Firebase data and asset flow, QR-code result delivery and web UI for Meta and Tiffany & Co.'s AI photobooth at the 2025 US Open, reliably supporting thousands of guests under concurrent event traffic.

The Daily Virals | *Founding Full-Stack Developer, Contract* | 2025

- Built the SaaS product from scratch across the Next.js interface, design system, authentication, Node.js services, PostgreSQL data model and external TikTok Shop data integrations.
- Developed ranking, filtering and discovery algorithms plus hourly ingestion jobs, caching and load-balancing strategies for large volumes of video and product data under immediate launch traffic.
- Helped launch a product that was profitable in its first month and grew to 4,000+ monthly users and approximately $220,000 in monthly recurring revenue.

Deeplocal | *Creative Developer, Contract* | 2025

- Solely developed the FireSat interactive installation for Google I/O 2025 on a two-week build and QA schedule, combining React, TypeScript, React Three Fiber, Three.js, GSAP, Lottie and custom WebGL shader effects.
- Optimized complex animated scenes for fixed booth hardware with limited memory and GPU capacity; the experience ran throughout the Google I/O event.

Talisman | *Full-Stack Developer, Contract* | 2025

- Worked with the CTO on the V2 redesign of an AI-powered accounting platform, implementing a PostgreSQL data model and GraphQL API layer and building dashboard UI and functionality in Next.js and React.
- Refactored a complex existing codebase while preserving backward compatibility with established accounting workflows and integrations.

Robin Knows | *AI and Mobile Developer, Contract* | 2024

- Led research and development for a model-agnostic LLM framework using LangChain.js, including long-term conversational memory, contextual analysis, retrieval-augmented generation and structured output parsing.
- Built a cross-platform React Native and Expo chat interface supporting text, image and audio communication over WebSockets for an AI-powered technology support application.

Triptych | *Creative Front-End Developer* | 2019-2024

- Delivered responsive websites, full-stack dashboards, real-time 3D products, browser games, mobile applications and permanent or event-based installations for clients including Meta, the FBI, Mastercard, The North Face, Volkswagen, Panasonic and EPB.
- Built Meta's My Main Street 3D marketplace in vanilla Three.js, including custom raycasting, mesh instancing to reduce GPU draw calls, navigation and seasonal particle systems before equivalent capabilities were available in the library.
- Developed full-stack functionality for EPB's authenticated utility dashboard using JavaScript, Python, Django, Wagtail, REST APIs and Chart.js, integrating real-time usage data and supporting account-service and payment workflows.
- Created interactive games and installations for the North Carolina Museum of Art, the FBI, Creative Discovery Museum and Volkswagen, implementing UI, game mechanics, WebGL transitions, physics and performance optimization across touch screens, desktop, tablet and mobile devices.
- Implemented 3D navigation, UI, animation and gyroscope-controlled look-around for The North Face's FUTURELIGHT mobile experience, recognized as FWA Site of the Day and Awwwards Mobile Site of the Week.
- Built a full-stack lumber marketplace with NestJS, Prisma and Next.js, consuming external inventory data and supporting location-based sorting and operational dashboards for buyers and sellers.

EDUCATION

University of Tennessee | *Bachelor of Science in Computer Engineering* | 2014-2019

Chattanooga State Community College | *Associate of Arts and Sciences in General Studies* | 2012-2014

LANGUAGES

English: Native | Spanish: B1 intermediate proficiency