

Andre D. Spencer

Senior Full-Stack Product Engineer · React & Next.js · Python & FastAPI · Native iOS · AI-Native Development

Available now

Fully remote, US

Senior / Staff

W2 or contract

US citizen, no sponsorship needed

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SUMMARY

Full-stack engineer with 19 years shipping production web applications, including three and a half years building React ordering experiences at Wawa for a 1,000+ store chain. Works end to end, from React and Next.js front ends to Python and FastAPI services on PostgreSQL, and since 2021 has shipped an App Store iOS app, a Vercel-hosted service business and an autonomous trading system through S24DeFi Labs. Builds AI-first, with Claude Code and GitHub Copilot as daily tools and responsibility for what ships.

CAREER HIGHLIGHTS

- **Built React applications on three production surfaces**, web ordering, catering and the in-store kiosk, for a 1,000+ store chain serving millions of customers, then drove BDD coverage to 100% across catering and web ordering, surfacing **15 latent defects** unit tests had missed.
- **Designed and built algo_bot**, an autonomous Python platform with six broker integrations behind one factory, an LLM sentiment signal, machine-enforced risk limits, a three-path kill switch and an append-only audit of every automated decision.
- **Authored the backend behind the studio work**: a FastAPI and WebSocket command center with token-based authentication and origin allowlisting, and a FastAPI service tested against PostgreSQL in GitHub Actions CI.
- **Shipped to market under S24DeFi Labs**: a native iOS app on the Apple App Store with subscription tiers, a Next.js service business live on Vercel, and a published children's book produced with a part-automated, AI-assisted pipeline.
- **60 to 80% increase in development efficiency** across a 20-person distributed engineering team by building an internal UX/UI debugging tool at Chase, with a measurable reduction in QA defects.
- **15% page load reduction** on high-traffic Pardot lead-generation forms at Cox Communications, by rewriting the JavaScript logic behind them.

EXPERIENCE

Wawa, Inc. · Senior Software Engineer

Remote · February 2023 to August 2026

Customer-facing digital commerce for a 1,000+ store retail chain serving millions of customers: web ordering, catering and the in-store kiosk.

Responsibilities

- Delivered React and TypeScript features across the web ordering, catering and in-store kiosk surfaces, integrated with REST and GraphQL services in a Dockerized microservices environment and shipped through GitHub Actions CI/CD.
- Contributed to the shared design system and component library, standardizing UI patterns across ordering, catering and kiosk.
- Partnered with Product and Design through ambiguous requirements on an 8-engineer Scrum team, delivering features and releases against a shared cadence.
- Instrumented and analyzed application metrics in Datadog, turning observability data into performance and reliability work.

Key achievements

- Built out the Playwright and Cucumber BDD suite for catering and web ordering.
- **Improved site load time 5%** through targeted performance work on the ordering flow.

Cox Communications · Senior Software Consultant

Remote · March 2020 to January 2023

- Delivered production features from InVision designs into Adobe Target and Adobe Experience Manager across Cox Business and Residential properties, including experiments analyzed to guide iteration.
- Rewrote the JavaScript behind high-traffic Pardot lead-generation forms to cut page load time.

Chase / Bridge2Solutions · UI Technical Lead

Alpharetta, GA · January 2014 to February 2020

Chase Ultimate Rewards, a consumer rewards and redemption platform. Bridge2Solutions was acquired by Intercontinental Exchange (NYSE: ICE) in 2020.

Responsibilities

- Set technical direction for 4 onshore and 16 offshore UI and Java developers building Chase Ultimate Rewards, held through influence rather than reporting authority.
- Built the internal UX/UI debugging tool the 20-person team used daily.
- Set and enforced W3C/ADA AA accessibility standards across the enterprise Angular platform.

EARLIER EXPERIENCE

- **Turner Broadcasting System (later WarnerMedia, now Warner Bros. Discovery) · Senior Application Developer / Front-End Technical Lead** · Atlanta, GA · October 2010 to January 2014. Built and launched 15+ companion sites and web applications for television series and pilots across TNT, TBS and Turner Classic Movies, on the team that carried Hollywood-grade production standards onto the web, shipped to broadcast air dates alongside a 25+ person technical organization.
- **AIS Media · Interactive Solutions Developer** · Atlanta, GA · September 2007 to October 2010. Built an inventory web application managing 60,000+ products across 2 locations.

INDEPENDENT WORK

S24DeFi Labs · Senior Software Engineer & Founder

Alpharetta, GA (Remote) · 2021 to present

Independent product studio shipping live web applications, mobile apps and autonomous systems end to end. labs.s24defi.com · github.com/adswework

- **algo_bot**: Autonomous trading platform in Python. Six broker integrations behind one factory, an LLM sentiment signal, per-trade, exposure and daily-loss limits, a three-path kill switch and an append-only audit of every automated decision. Safe by default: paper and testnet execution unless live trading is explicitly enabled. Technical lead and primary author.
- **Command center and CI**: FastAPI and WebSocket control service with token-based REST and WebSocket authentication and a strict origin allowlist. CI runs pytest with coverage, ruff, black, dependency auditing and changelog enforcement, with Prometheus and Grafana observability.
- **AI-assisted PR review pipeline and developer automation CLI**: Structured review workflow built around Claude Code and GitHub Copilot, plus a 170+ command shell toolkit being packaged as an installable CLI.
- **webui-lib-findings-service**: Ingests scanner results without creating duplicates when the same report arrives twice. Python, FastAPI, PostgreSQL, Docker. Pytest suite runs against a real database in GitHub Actions CI, and the README documents the design.
- **webui-app-hdsh**: Monitoring-first smart-shelter controller built on Vite, shipping AGENTS.md and CLAUDE.md so AI coding agents follow the project's conventions.
- **webui-lib-bdd-framework**: BDD library for measuring and asserting application performance inside the test suite. Playwright, Cucumber, TypeScript, Node.js. Created in 2026.
- **Stewards.Digital**: Website audit and rebuild service for non-profits, with fixed-price tiers and audit-request intake. Next.js, React and TypeScript, live on Vercel.
- **SkillSprouts** (App Store · web app): Native iPhone app in Swift, published to the Apple App Store, plus a mobile-friendly web app. Children check off chores behind their own PIN, parents confirm, and stars build to badges. Local-first, no accounts, no ads; monthly, annual and lifetime tiers via in-app purchase.
- **Little Trail Pals (Amazon KDP)**: Published 24-scene children's coloring book, live and taking orders, produced with a part-automated, AI-assisted pipeline for interiors and print-ready assembly.

EDUCATION

Bachelor of Fine Arts, Computer Graphics · New York Institute of Technology, Old Westbury, NY

KEY SKILLS & TOOLS

Frontend & Mobile

React · Next.js · TypeScript · JavaScript (ES6+) · HTML5 · CSS/SCSS · Vite · Design systems · Accessibility (WCAG, ADA AA, Section 508) · Swift · Native iOS · App Store release

Backend & Data

Python · FastAPI · Node.js · Express · REST · GraphQL · WebSockets · PostgreSQL · MongoDB · SQLite · Data model and API contract design

Quality & Delivery

Playwright · Cucumber/BDD · Jest · React Testing Library · pytest · GitHub Actions CI/CD · Docker · Vercel · AWS Lambda

AI & Observability

Claude Code · GitHub Copilot · AGENTS.md / CLAUDE.md conventions · LLM API integration · AI-assisted PR review · Datadog · Prometheus · Grafana

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