Nick Virden

AI Engineer, Frontend-Leaning Full Stack

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10+ years building high-performance React, Next.js & TypeScript applications for fintech, legal, media, and healthcare — with Claude Code and Cursor as daily practice, not a buzzword.

Stack

AI & agentic engineering: Claude Code, Cursor, GitHub Copilot, MCP (Model Context Protocol), multi-agent orchestration, tool calling, SSE streaming

Frontend: React, Next.js, TypeScript, Redux, design systems, Storybook, Nx monorepos, internationalization (Lingui)

Quality & accessibility: WCAG 2.1 AA, axe-core, Playwright (E2E + visual), Jest, React Testing Library, Cypress, TDD

Backend, data & cloud: Node.js, Java/Spring Boot, Django/DRF, Flask, PostgreSQL, Elasticsearch, AWS, Kubernetes (OpenShift), GitHub Actions

Integrations & compliance: Salesforce (Apex, SOQL), PayPal, Google Ads API, Twilio, OAuth/OIDC (PKCE), BFF architecture, PII handling

Experience

Virden Web Design — Principal Engineer / AI Engineer

Freelance · Jun 2026 – Present

— Designed and shipped an agent-queryable personal platform: the same typed content source renders a React/Next.js site, a plain-text resume, a JSON Resume document, a published OpenAPI 3.1 spec, and an MCP server, so an LLM agent can query the work history as structured tools rather than scrape a page.

— Built it through a multi-agent delivery pipeline — planner, implementer, and a verifier agent structurally barred from reviewing code it wrote — under WCAG 2.1 AA, axe-core, and Playwright visual-regression gates across three theme variants.

— Building the Grounded Expungement Eligibility Agent, an audit-trailed agentic product: tool-derived reasoning, no unsupported model assertions, every step persisted for audit (Next.js, FastAPI, Pydantic AI, SSE streaming).

TwinWise AI — AI Engineer, Frontend-Focused

Contract · Jan 2026 – Jun 2026

— Designed (with the CTO) and implemented a Cloudflare Worker BFF for Zitadel OIDC authentication (PKCE, openid-client/jose), replacing a legacy custom SSO/2FA system — issuing httpOnly session cookies, exposing JWT role claims to the frontend, and gating identity-metadata writes through a service-account-backed endpoint to work around Zitadel's all-or-nothing write-permission model.

— Orchestrated single- and multi-agent development workflows on an AI-first product; built a bounded, multi-persona adversarial review pipeline — attacking plans pre-implementation and code post-implementation — to ship agentic output at production quality.

Thrivent Financial — Senior Frontend Developer

Contract · Dec 2023 – Dec 2025

— Led a full replatform of a legacy ASP.NET (ASPX) system to a modern, highly performant, mobile-responsive React/Next.js/TypeScript application on AWS (Red Hat OpenShift, S3) alongside a team of senior engineers.

— Owned the search-ranking and filtering behavior for Thrivent's financial-advisor search experience (React/Next.js/TypeScript); maintained a Java/Spring Boot service that sanitized and integrated advisor data from Yext, the system of record for advisor profiles across Thrivent's directory and social listings.

— Introduced agentic development to a team that started the engagement with none — evaluated and rolled out Claude Code, Cursor, and GitHub Copilot, and authored the plan-review and verification conventions the team adopted.

— Cut CI time ~30% by restructuring the Nx build/task graph; held 80%+ unit coverage (Jest, React Testing Library) with Cypress covering critical user journeys end to end, gated in GitHub Actions.

Warner Bros. Discovery — Senior Frontend Developer

Contract · Feb 2022 – Dec 2023

— Built the shared front-end component library adopted across HBO, Max, DC.com, TNT, and other WBD properties.

— Led a cross-functional initiative to add internationalization across all WBD partner-brand sites, defining data contracts with backend and shared components with design.

— Documented the library in Storybook, raised component test coverage from under 50% to 85%, and modernized Azure-based CI/CD pipelines.

LegalShield — Senior Frontend Developer

Full-time · Jul 2021 – Jan 2022

— Led the React/TypeScript/Node.js rewrite of a lawyer case-tracking tool's referral system — migrated it off a legacy AngularJS application, mentored two junior engineers through the migration, and established the team's TDD (Jest) and ESLint/Prettier standards.

Feedtrail — Founding Frontend Engineer/Architect

Full-time · Mar 2020 – Jun 2021

— Set the front-end architecture for a greenfield hospital-experience analytics platform (React, Redux) adopted by major US and European hospital systems.

— Built Nivo-based data-visualization dashboards and internationalized the product across 20+ locales with Lingui.

— Wired Sentry into the app bootstrap for production error monitoring; partnered with backend engineers on a Django/DRF/Celery/Elasticsearch API handling HIPAA/GDPR-constrained clinical feedback data.

ZenBusiness — Frontend-Leaning Full Stack Developer

Contract · Jul 2018 – Aug 2019

— Worked closely with marketing & UI design teams to boost landing-page conversions in an enterprise-level React + Redux app.

WipeRecord — CTO

Freelance · Apr 2017 – Oct 2020 (concurrent)

— As sole technical owner, architected and rebuilt a lead-generation product into a fully custom Node.js/Express platform over three years — a Flask-based API integrating Infusionsoft operations, 40+ custom Apex REST endpoints and dozens of tested Salesforce database triggers inserting and modifying customer case records (reached via jsforce, with paired Apex unit tests), and a Mocha/Chai TDD suite covering per-state legal-eligibility logic across 25+ states.

— Owned the conversion funnel and paid-acquisition integrations (PayPal, maintaining a custom SDK fork; Google Ads API) — lifted conversion 400% (5x more clients monthly); revenue grew from $1M to $3M ARR over the engagement.

Earlier — 2016–2018

Trilogy Education Services — Data Science Teaching Assistant

Cingo.me — Full Stack Developer

Education

The University of Texas at Austin — BBA, Management Information Systems (2012–2015)

General Assembly — Certificate, JavaScript Development (2016) — The bridge from MIS into production engineering — the first full-stack role started the same year.

Certifications

Certified ScrumMaster (CSM) — Scrum Alliance (since 2015)

Languages

English — Native

Spanish — Professional working proficiency — Daily technical collaboration with QA teams in Mexico, Ecuador, and Peru; founded the dev org's Spanish-speaking engineering channel at WBD (~25 engineers).