Craig Pestell

Senior Full Stack Engineer, internal tools and platforms

craigpestell@gmail.com | +1 (415) 513-7188 | Vancouver, BC, Canada, open to US relocation (TN eligible)
craigpestell.com | linkedin.com/in/craigpestell | github.com/craigpestell

Summary

Senior full-stack engineer who ships production-grade internal tools end to end, from Kubernetes deploys to polished React UIs, and whose tools get adopted voluntarily with no top-down rollout. At Apple, I was the sole frontend architect of a data-pipeline platform that 60+ hardware engineers and factory-floor operators now depend on. Earlier: Google, Williams Sonoma, and Macy's.

Available now for staff/principal IC roles, contract engagements or consulting.

Experience

Apple Inc., Senior Full Stack Engineer (Contract) Sept 2024 – Sept 2026

Rejoined Apple by request. Sole frontend architect of an internal data-pipeline platform built from an empty repository, with ownership extending into the API gateway and Kubernetes-scheduled sequencer service.

- Reached 60+ users across Cupertino hardware engineering and factory-floor operations with no top-down rollout, by replacing deep folder navigation and ad-hoc parsing scripts with a guided retrieval workflow over datasets typically 1-4 TB and peaking near 20 TB
- Cut pipeline setup from up to an hour to about 30 seconds with guided parameter selection that surfaces only valid options from thousands of values
- Enabled hardware engineers to run their own Python post-processing code against pipeline files, provided by .zip upload or cloned from their own repositories, with read access granted through a purpose-built GitHub App
- Architected the Next.js / React 19 / TypeScript frontend from a blank repository, wired OIDC end to end with per-request identity propagation, and shipped through Kubernetes and internal CI/CD
- Built the unit test suite from scratch to ~80% coverage and added an OpenAPI-to-TypeScript CI drift gate so frontend and API contracts cannot silently diverge

TypeScript, Next.js, React, Tailwind, Storybook, Playwright, Python, Flask, OIDC, S3, Kubernetes

Series B Healthcare AI Startup, Senior Full Stack Developer Jul 2023 – May 2024

Led product and platform work for a VC-backed startup whose LLM-powered product read patient medical records and scored its confidence in each answer.

- Set up much of the Azure cloud infrastructure and the deployment pipelines
- Built the product with strict PII handling: patient identifiers were scrubbed from all model data shown to users
- Architected and delivered the React subscription management dashboard from concept to production, with Auth0 OAuth and granular roles and permissions

TypeScript, Next.js, NestJS, Python, Azure, Auth0

Google Inc., Senior UI Developer (Contract) Feb 2022 – Oct 2023

Designed and prototyped a version control system for silicon chip design specifications, built for collaboration across 20+ hardware engineering teams.

- Proof-of-concepts and wireframes guided the architecture of the platform
- Took the prototypes to a production application on Angular, RxJS and Google's internal toolchain
- Reviewed code across the frontend development team

Angular, TypeScript, Python, RxJS

Williams Sonoma, Senior UI Developer — Oct 2020 – Dec 2021

Led the move from a legacy monolithic e-commerce platform to a micro-frontend ecosystem.

- Architected a context-agnostic component library for Pottery Barn, West Elm, and Mark and Graham; components adapt to each brand's design language through CSS variables while behaving the same everywhere
- Built the micro-frontend component build system with a structured CI/CD pipeline
- Made component orientation, initial state and interaction patterns configurable while preserving accessibility and performance standards

Vue.js, Node.js, TailwindCSS, SASS, Jest

Macy's, Senior UI Developer — Feb 2015 – Apr 2020

One of two engineers who designed and built the Macys.com micro-frontend architecture, replacing a monolithic frontend so teams could build components in their framework of choice and release on their own schedules.

- Built a component harness for developing components in isolation without running the full site, driving voluntary adoption of the architecture across ~8 teams
- Cut catalog page load from 27s to 7s by removing unused third-party scripts, deferring non-critical scripts, and prioritizing above-the-fold content
- Built a Segment-style analytics layer and in-house event store that consolidated multiple third-party analytics tools

React, Redux, GraphQL, Node.js, Java, Webpack, SASS

Autodesk, UI Developer — Sept 2014 – Dec 2015

Customer subscription portal features supporting Autodesk's move to software as a service.

Google Inc., Software Engineer (Contract) — Feb 2012 – Sept 2014

Developed and maintained an internal ticketing system serving over 10,000 requests per second across 10+ million records at 99.9% uptime; converted 100+ ticket forms to a refactored framework and built the mobile frontend.

Earlier: Consulting and contract engagements from 1998 across database applications, PHP web systems, public-sector software, e-commerce, CMS platforms, web services, and Linux administration.

Open Source

Variation Converter for WooCommerce. Open-source WordPress plugin that merges near-duplicate simple products into variable products, with preview and one-click undo. wordpress.org/plugins/variation-converter-for-woocommerce

Technical Skills

Languages: TypeScript, JavaScript, Python, Java
Frontend: React, Next.js, Vue.js, Angular, TailwindCSS, SASS/SCSS, Redux
Backend: Node.js, PostgreSQL, MongoDB, Express.js, NestJS, Flask, GraphQL
Tools & Platforms: Storybook, Playwright, Webpack, Git, Linux, AWS, Azure, Google Cloud, Docker, Kubernetes, AI-Assisted Development (Claude, Copilot), Auth0

Education

Diploma in Computer Systems Technology, Data Communications & Networking, British Columbia Institute of Technology — 2004–2006

Programming Concepts and Methodologies (coursework), British Columbia Institute of Technology — 1999