

Bruce Blay
Web Developer
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SKILLS

Javascript, Typescript, React, Redux, Next.js, Vercel, Node, Express, GraphQL, HTML, CSS, SASS, Tailwind, AWS, Google Cloud, Kubernetes, Docker, Git, PostgreSQL, NoSQL variants, Webpack, Rollup, Vite, MaterialUI, shadcn/ui, Framer Motion, Chart.js, d3, Jest, Vitest, Playwright, React Testing Library, Agile (Scrum and Kanban), Linux, Claude API, OpenAI API, ElevenLabs.

EXPERIENCE

Strangeworks, Austin TX, strangeworks.com - Senior Frontend Developer - Quantum Computing Platform - Dec 2023 - May 2026

- Senior developer collaborating with scientists and mathematicians to solve optimization problems using quantum computers and machine learning. Built user-facing applications that make quantum computing accessible to researchers and enterprise customers.
- Contributed billing improvements and quantum job visualization features to the customer portal. Collaborated on a natural language problem formulation interface that became the conceptual foundation for Aura.
- Led development of strange-ui, an internal npm library of reusable shadcn/Tailwind components, page templates, and React Query hooks designed to unify frontend development across all company web projects. The library shipped with a CLI and an Anthropic-powered documentation assistant.
- Developed frontend features for Aura, a chat-first AI agent that guided researchers through natural language problem formulation and optimization modeling, with the goal of generating standalone deployable applications for day-to-day users.

Publicis Sapient, Dallas TX, publicissapient.com - Senior React Developer - Sept 2021 - Dec 2023

- Built a product data capture application for Albertsons item vendors to self-submit product information, replacing a manual, error-prone process. Implemented deeply conditional form logic enforcing category-specific requirements across food, alcohol, refrigerated, and other item classifications.
- Built an employee-facing order fulfillment application for Loblaw, Canada's largest grocery retailer, with real-time WebSocket alerts for order readiness and customer arrival. Diagnosed and resolved a critical production memory leak through heap profiling, eliminating recurring server crashes.

AmpThink, Garland TX, ampthink.com - Lead Frontend Developer - Enterprise Wi-Fi Infrastructure - Apr 2017 - Sept 2021

- Sole frontend developer on a two-person engineering team, building applications that handled tens of thousands of daily users across professional sports arenas, concert venues, and theme parks nationwide.

- Developed mobile-first web applications serving thousands of Texas A&M sports fans and Dickies Arena visitors. Built with React and Redux, integrated with headless WordPress CMS for real-time content management.
- Led migration of analytics platform from legacy .NET to modern JavaScript stack using Ember.js, PostgreSQL, Express, and GraphQL. Provided real-time insights for venues hosting thousands of concurrent users.
- Developed captive portal authentication system for high-traffic public Wi-Fi networks. Built custom CMS for rapid portal customization and comprehensive user behavior tracking.

Vinli, Dallas TX, vin.li - Frontend Developer - Connected Car Startup - Oct 2015 - Mar 2017

- Developed a support platform enabling customer service teams to diagnose OBD-II device issues, with role-based access controls and audit trails. Built with Ember.js, Hapi.js, and PostgreSQL.
- Built a fleet analytics dashboard for vehicle telemetry and oversight, deployed to clients including dealerships, rideshare platforms, and logistics companies.

70kft, Dallas TX, 70kft.com - Web Developer - Digital Marketing - Jan 2014 - Aug 2015

- Built client websites across Craft, ExpressionEngine, and WordPress CMSs with a focus on responsive design and ecommerce integrations. Notable clients include Verizon Cloud, Monuments Men Foundation, and Dallas Holocaust Museum.

EDUCATION

University of Texas at Arlington - Computer Science Program - 2014

Advanced coursework in software engineering, algorithms, and system design

University of North Texas - Bachelor of Arts in Philosophy - 2008

Capstone focus: Formal Logic

Study abroad: UNT Sub-Antarctic Biocultural Conservation Program, Cape Horn, Chile (2007)