

David Marr

Principal Software Engineer | TypeScript & Modern Web | AI and Data Products

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Summary

Twenty-five years of experience building demanding web products and the data behind them: marketplaces, business software, and energy and climate tools. Owning the path from browser through APIs and working closely with data and machine learning partners, allows me to stay hands on while also growing teams, raising quality, and shipping faster.

My current focus is AI-assisted development: tools and custom automation that turn specs into shippable features with tight spec-and-build loops, allowing teams to spend more time on the product.

Experience

June 2022 – Mar 2026 **Engineering Lead (UI)**, Context Labs – Cambridge, MA

Created and managed data software (Vue/Nuxt) for global energy and sustainability teams. Integrated graph database with ontological classification system to support OGMP reporting standards. Defined OKRs for engineering to keep teams aligned across the company.

- Managed nine engineers across three continents and mentored engineers and team leads.
- Developed pathway optimization tools for routing and delivery of NextGen energy products.
- Delivered multi-tenant enterprise features for customer organizations: single sign-on, role-based access, and localized UI in one codebase.
- Built a shared component library for visualization of complex charts, maps, and data using Vue, Tailwind, and Nuxt.
- Designed formal spec-driven delivery and iteration tools using AI and shell scripting.
- Utilized DORA metrics (MTTR) leading to faster incident recovery and more frequent deploys.

Feb 2020 – Feb 2022 **Lead Engineer**, Filtered.ai – Boston, MA

Hiring software for large employers in finance and tech. Owned scheduling, candidate flows, assessment sites, and live video interviews for technical hiring at scale.

- Built automatic scoring, instant candidate feedback, and fraud detection for technical assessment platform.
- Used site data and product metrics to identify and fix bottlenecks in candidate experience, improving completion rates and time to hire.

Apr 2018 – Dec 2019 **Staff Software Engineer**, Turo – San Francisco, CA & Cambridge, MA

Owned work that helped hosts stay active, keep listings in good shape, and earn more; worked with analytics to see what moved the numbers and what to ship next.

- Shipped availability calendar, trip lifecycle management, and dynamic pricing for the full host base, raising utilization and host-side revenue; partnered with analytics to quantify lift and iterate releases.
- Ran the All-star host program end to end, linking rewards to quality and host retention.

Jan 2016 – May 2018 **Senior Software Architect**, OneMarket / Westfield Labs – San Francisco, CA & London, UK

Built omnichannel software for retailers including parking, payments, and finding your way inside busy shopping centers.

- Designed smart parking product which included subscription based payments and automated entry using facial recognition at the gate.
- Crafted indoor maps and turn-by-turn directions using beacons in malls for partners to confirm store footprints.
- Designed APIs and customer facing apps for Westfield locations worldwide using React, Node.js, and PostgreSQL.

- July 2013 – Dec 2015 **Senior Systems Engineer**, Tilt.com – San Francisco, CA
Responsible for signup and core product flows. Focused on conversion, uptime, and handling spikes when demand peaked. Redesigned signup and onboarding flows (~15% lift in conversions and revenue).
- Mar 2012 – Apr 2013 **Senior Software Engineer**, Say Media (formerly VideoEgg) – San Francisco, CA
Improved engaged time across sites through features like in-article user reactions, editorial tooling, and modules for recirculation and related content.
- June 2011 – Dec 2011 **Senior Front End Web Developer**, CBS Interactive – San Francisco, CA
Built features for tv.com with Python and JavaScript; A/B tested variants on core flows to improve engagement and conversion.
- Jan 2010 – May 2011 **Technical Co-Founder / CTO**, Secret Feature – San Francisco, CA
Developed creative social media applications using JavaScript and Python; built a team and raised funding to launch products.
- Jan 2009 – Mar 2010 **Design Technologist**, Frog Design – San Francisco, CA
Built web application for MagicBand wristband at Disney World. Integrated cellular video into portable hardware device. Developed software prototypes for mobile devices.
- Sept 2006 – Dec 2008 **Senior Frontend Engineer**, Yahoo – Sunnyvale / San Francisco, CA
Built Yahoo! Answers integration for the high traffic Small Business product using PHP and MySQL. Shipped Yahoo! Live live streaming at Brickhouse, reaching 60+ minute average time on site and ~2M signups in nine months.
- Mar 2004 – Aug 2006 **Senior Web Developer**, Monster.com – Maynard, MA
Built and maintained Webby-recognized careers.monster.com; worked with editorial and content teams to design and implement features for career advice and job search.
- Mar 2003 – Apr 2004 **Web Applications Developer**, SoftArtisans – Brookline, MA
Developed enterprise file upload software (SAFileUp) using Microsoft technologies.
- Sept 2000 – Feb 2003 **Web Developer**, GE Fanuc / Intellution – Foxborough, MA
Built web interfaces for industrial automation and control system software using SQL Server, classic ASP, and IIS.

Education

- Sept 1996 – May 2000 **University of New Hampshire**
BS, Business Administration
Focus: Management of Information Systems. Dean's List.

Skills

Languages: JavaScript, TypeScript, Go, Python, HTML, CSS

Infrastructure & data: Docker, Kubernetes, Amazon Web Services, Google Cloud Platform, OpenAPI, PostgreSQL, MongoDB, Trino, ArcadeDB, OrientDB, GraphQL

Frameworks & libraries: Vue, React, Tailwind, TanStack, Vega Lite, WebGL, Mapbox, Maplibre, Deck.gl, Nuxt, Vite, Vitest

AI: Azure AI Foundry, OpenAI, Anthropic Claude, Google Gemini, RAG, LangChain, MCP