Kyle Simpson

Austin, TX (and remote)

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Principal-level software architect, engineer, and author of You Don't Know JS, with 25+ years of experience spanning software architecture, developer platforms, DevEx, and engineering culture. Seeking Principal+ IC roles combining hands-on technical depth with cross-team architectural leadership.

Principal Platform Architect

Intuitive.ai (Siemens) *Aug 2026 - Present*

- Defining platform-wide architecture and technical standards for an enterprise Infrastructure-as-Code (IaC) platform supporting Git-based configuration and provisioning of private-cloud compute, VM images, storage, and networking, as part of a monolith-to-microservices migration.
- Establishing Temporal workflow orchestration best practices, including activity design, retry policies, error handling, and operational reliability, while guiding adoption across the platform.
- Architecting centralized authorization services using ORY and Microsoft Entra ID, including service-account support for automated CI/CD pipelines.
- Designing and developing a React-based microfrontend (MFE) shell using Module Federation, including shared alerting and notification capabilities.
- Establishing platform-wide architectural standards for API versioning, error handling, logging, audit trails, and service interoperability, formalized through Architecture Decision Records (ADRs).

Lead: Developer Ecosystems

Source, Inc. *Jan 2025 - May 2026*

- Shaped product and technical strategy during Source's transition from local-first to edge-first infrastructure, defining architectural positioning and authoring the Edge-First Manifesto.
- Architected an extensible GraphQL query-builder DSL, supporting composable queries, execution, transaction management, and DefraDB-specific plugins.
- Built applications and technical demonstrations in JavaScript, Go, and Rust to validate DefraDB's embedded and peer-to-peer database capabilities, identifying API defects and opportunities for platform improvements.
- Drove developer experience improvements through hands-on API evaluation, influencing onboarding, query workflows, developer ergonomics, and platform reliability.

Principal Software Engineer, Co-Founder

Vella.ai *Feb 2024 - July 2024*

- Designed and built local-first, passkey-based identity system, with client-side encrypted data storage
- Managed Cloudflare website deployments built with Astro (React + Vue), with Supabase data storage
- DevRel: 8+ meetup talks, podcast appearances, open-source projects

Principal Software Engineer

Socket Supply Co. *Jan 2023 - Oct 2023*

- Implemented E2E encryption scheme for P2P protocol
- DevRel: 15+ podcast appearances, conference talks, blog posts
- Built 2 demo apps on Socket runtime, using React/Redwood

Distinguished Engineer

MURAL *Jan 2021 - May 2022*

- Led engineering culture initiatives across the organization, establishing mentorship, technical office hours, and knowledge-sharing programs
- Designed 5 technical interview and onboarding modules to improve engineering hiring and developer integration
- Developed and delivered quarterly technical workshops to promote engineering practices and professional development
- Served as an embedded technical lead for 2 engineering teams, providing hands-on guidance and technical mentorship
- Co-organized MURAL Motion, a company-sponsored engineering conference with 100+ external attendees

Head of Curriculum

MakerSquare *Jul 2015 - Jul 2016*

- Authored and managed JS bootcamp curriculum for 4 campuses
- Mentored and oversaw 10 technical educators

Software Engineer - DevTools

Mozilla (Firefox) *Apr 2011 - Oct 2011*

- Designed and built 3 developer-tools for Mozilla Firefox
- DevRel: engaging developers at conferences and meetups, around dev tools ideas and feedback

User Experience Architect

PointServe *Jun 2007 - Jan 2009*

- UI/UX design for 20+ enterprise features
- Prototyping (HTML, CSS, JS, and Flash)
- Conducted 15+ usability testing sessions
- Designed 100+ test plans for QA

Education

Texas State University
B.S. Computer Science

Skills

Software Architecture, Platform Engineering, Microservices, Infrastructure-as-Code (IaC), Temporal, Authentication & Authorization, JavaScript (JS), Node.js, React, GraphQL, Functional Programming (FP), Developer Experience (DevEx), Technical Leadership, Engineering Culture, Open Source