

Andrew S. Ross

Software Engineering Lead

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Lead Full-Stack Engineer (React/Node/Next.js/TypeScript) who slashed build times 4x and drove 3x performance gains at Takeda. 5+ years scaling global Web and XR platforms.

WORK EXPERIENCE

JAMstack Development Lead, Takeda

Apr 2022 – Sep 2024

Lexington, MA (Remote)

Led a global team of developers to build and deploy Web & XR solutions including the new Takeda dot com site that shipped [across 70 geographies](https://youtu.be/M4vrwl5PDI0?t=129) (youtu.be/M4vrwl5PDI0?t=129)

- Built internal AI Chat medium for employees; threaded 9 Azure LLM endpoints (HR, Legal, R&D, Ethics, etc) into a single Next.js UI; Azure AD SSO for auth, Prisma/Postgres for convo persistence and LLM context-feeding
- Reduced build times 4x by spearheading a Netlify-to-Vercel migration within 4 months of starting
- Developed @takeda-digital/xr automating 20+ XR project deployments & slashing rollout from weeks to hours
- Leveraged Cloudinary CDN to mirror 100,000+ media assets per XR project, improving performance threefold
- Designed and deployed [BioLife XR](#) targeting prospective plasma donors; 4,000–5,000 active monthly users
- Architected internal package ecosystem (12+ packages)

Software Engineer & HIPAA Compliance Officer, Cortina

May 2021 – Feb 2022

Chattanooga, TN (Remote)

Developed a teledermatology platform with React, TypeScript, & Node via AWS; obtained orgs' HIPAA seal of compliance

- Developed and implemented HIPAA-compliant Node.js/TypeGraphQL microservice layer on AWS Fargate; BullMQ queues for asynchronous jobs, Prisma/Postgres for data modeling, & Redis for caching
- Built out headless WordPress+Next.js marketing site; architected analytics instrumentation & ran segmented A/B tests on ads-driven pop-up landing pages (1-3x weekly syncs with marketing agency); surfaced real-time demographic insights to optimize conversions for high-value cohorts (affluent female consumer target)

Independent Consulting

Mar 2020 – Apr 2021

Highland Park, IL & Nashville, TN (Remote)

- Architected B2B Headless WP + Next.js + AWS + SEO Boosting strategy; capitalized on Google's shift towards a Web Vitals-centric SEO ranking method which drove demand (performance became a key determinant of SEO)
- Mentored 40+ students in full-stack development via Vanderbilt; focused on React, Node, and GraphQL

EDUCATION

The University of Iowa, Iowa City, IA

Bachelor of Science — Bio Anthropology

Bachelor of Arts — Biochemistry

Northwestern University, Evanston, IL

Professional Certificate — Full-stack Development

SKILLS

Core	Infra & CI/CD	Backend	Data Viz	AI/Data
TypeScript, Node.js, Next.js, React, GraphQL, React Native	AWS, Vercel, Azure, Docker, Cloudflare, GitHub Actions	Nest.js, Express, Fastify, Redis, Postgres, Prisma, BullMQ	R3F, d3.js, three.js	Python, OpenAI

SELECT OPEN SOURCE PROJECTS

@d0paminedriven/motion playground

- Built a [real-time visual editor](#) for my react-based @d0paminedriven/motion text animation package—live-preview + synced code snippet for easy c/p of any customizations made—[published](#) on npm (158 installs in first 48 hrs)