Andrew S. Ross
Engineer, Tinkerer

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JAMstack Development Lead, Takeda Pharmaceuticals
Intelligent Workplace Business Unit
April 2022-September 2024
- Spearheaded POCs for new technology integration across teams as well as for non-technical stakeholder projects across the org
- Helped the org become proficient in their use of Next.js and pushed for the adoption of Vercel from the start; 3 months later, Takeda switched from Netlify to Vercel; 12 months later, we saw 4x faster builds and deployed the new Takeda site across over 70 geographies
- Architected, developed, and maintained an internal package ecosystem published to a private registry (Azure-then-AWS-hosted jfrog)
- Worked closely with the XR team at Takeda as their go-to engineer for deploying secure, performant, and scalable immersive experiences
- Wrote a cli-based package to handle the transformation, optimization, and standardization of web assets generated by 3d software used to build virtual experiences (3dvista pro); currently all ~20 XR projects in production (public and private) are powered by this package
- Built out a proof of concept for an apple wallet employee ID generator that involved collaborating with the head of IT in Canada as well as stakeholders from Italy and Brazil. Used Next.js, Cloudinary, and more.
- Popularized monorepo usage and wrote a companion cli-package to generate entire pnpm workspaces complete with org-specific preconfigured tooling to bolster developer efficiency when scaffolding out new projects and to enhance overall DX in general
- Worked extensively with Node, TypeScript, React, Sanity, Algolia, Cloudinary, Stackbit, Prisma, Azure, SQLServer, and Postgres
- Oversaw the development of a new Plasma Derived Therapies (PDT) employee portal for BioLife (a Takeda subsidiary); developers reporting to me were up to 12 hours ahead of my time so working asynchronously and being conscious of time zone differences was a constant
- Conducted several dozen interviews in total for Senior Engineer and Senior Architect roles

Software Engineer & HIPAA Compliance Officer, Cortina
June 2021-February 2022
- Served as the HIPAA Compliance officer for the org; received official sealof compliance; core business model = teledermatology application
- Introduced regular docker usage to the org; used for spinning up Postgres, Redis, Prisma, and more
- Built a CRM using Nest.js for the backend and Next.js to serve the client. The Ne(s/x)t.js project was spun up in a single Docker container—Relay spec compliant
- Built Integrations for Zendesk, Hubspot, and more. Used TypeGraphQL to create abstract resolvers, converging RESTful endpoints of utility into the schema. Built an event-driven ticketing system for Patients/MDs.
- Worked closely with the lead UI/UX Designer – prototyping in Figma

Cofounder & Tech Lead, Windy City Devs LLC
March 2020-February 2022 (still exists for tax purposes)
- Architected Headless WP strategy; modernize client web presence in terms of performance, SEO, scalability, flexibility, and design
- Host Headless WordPress backends on AWS; wrap WP-instances with CloudFront CDN to offer clients AWS Polly and Alexa text-to-voice capabilities for enhanced accessibility
- Optimize code reusability and developer efficiency by using Next.js, TypeScript, GraphQL, codegen, and Tailwindcss

Full-Stack Bootcamp TA, Vanderbilt University
September 2020-April 2021
- Provided students with 1:1 and group instruction three times weekly
- Offered several hours of office hours each weekend for students seeking additional help
- Presented new course material and walked the cohort through solutions during lecture routinely

EDUCATION

The University of Iowa
B.A. Biochemistry, B.S. Anthropology
Chemistry Minor

Northwestern University
Full-Stack Development

SKILLS

TypeScript
Next.js
React.js
Prisma
Node.js
Tailwindcss
v0
motion
GraphQL
REST
Nest.js
Package dev
Express.js
Turborepo
Vercel
Jfrog
PostgreSQL
MongoDB
MySQL
SQL Server
Sanity
Algolia
Okta
Nexus
TypeGraphQL
Apollo
Relay
Postcss
Redis
Codegen
SWR
Axios
Cloudflare
Cloudinary
Azure
AWS
GCP
Docker
WSL
WordPress
WPGraphQL
Stackbit
Shopify
Contentful
Apache/Nginx
UI/UX
Figma
Photoshop