

skills

Experienced

- Web UI frameworks (React, Next, Remix, Vue, Solid, Astro, etc.)
- Full-stack web (HTML/CSS, JavaScript/TypeScript, Node.js, Java)
- High-impact fast-moving products built by cross-functional teams
- Data analysis, visualization, and statistics (R, Python, SQL)

Exploring

- Innovative web UI solutions/patterns
- Cloud infrastructure
- Functional programming
- Deep learning/machine learning

experience

Web Engineer at Spotify

2022-present

- Lead and contribute to core products that shape the future of Spotify's advertising business
- Work on React.js/TypeScript frontend, Java backend, and Google Cloud infra to deliver results
- Build alignment across teams & stakeholders to ship next features in time in a fast-moving environment

Frontend Web Developer at University of Chicago

2020-2022

- Design and build highly dynamic & interactive React.js apps for the Pediatrics Cancer Data Commons team
- Model and implement API services to support key features of the React.js apps
- Profile and optimize the React.js apps for improved performance & UX

Research Analyst at Illinois Criminal Justice Information Authority (ICJIA)

2017-2020

- Designed and built web-based solutions for the ICJIA Research & Analysis (R&A) Unit
- Provided advanced data analysis and statistics support for research projects

projects

Full-stack project - Spotify Ads Studio Audience Manager (WIP)

Oct 2023-present

- Leading the creation of a full-stack CRUD service/app to empower advanced/enterprise advertisers to manage pre-defined audience targets for sophisticated ad campaigns and help self-serve ad booking at Spotify to scale
- Defining technical milestones & tasks to meet product requirements, leading implementation efforts, and building alignment with stakeholders incl. engineers & managers, product & design partners, external dependencies
- DB instances provisioned via Google Cloud SQL, internal Java service with gRPC API, new OpenAPI schema & endpoints on Spotify Ads API, standalone Next.js GUI app, integration with ad booking flow on Spotify Ad Studio

Backend service - Spotify Ads API v2

July 2023-present

- Contributing to a complex Java Spring service to provide Spotify Ad Studio & 3p clients with a comprehensive suite of API endpoints for managing ad campaigns on Spotify; leading efforts to implement new OpenAPI schemas & endpoints and update the existing ones to support evolving ad booking requirements
- Java Spring service with REST and GraphQL endpoints; mature setup for automated tests (JUnit, Testcontainers)

Web GUI app - Spotify Ad Studio

Sep 2022-present

- Contributing to a fast-moving, feature-rich self-serve portal web app for advertisers to book, manage and monitor ad campaigns on Spotify; leading projects to deliver new features focused on delightful ad booking experience; delivering improvements to the overall code quality, performance, and stability
- Next.js GUI app with complex legacy codebase; mature setup for automated tests (Testing Library, Storybook, MSW, Cypress), i18n support, and feature flags

Web GUI app - Leukemia & Lymphoma Society (LLS) Pedal GEARBOX

May 2020-Sep 2022

- Built a web app that helps clinicians to quickly identify potential clinical trials to enroll their patients
- New React.js GUI app written in TypeScript; moderately complex data structure & algorithm

Web GUI app - Pediatric Cancer Data Commons

May 2020-Sep 2022

- Built a feature-rich data commons web app to support interoperability among global pediatrics cancer research organizations and provide access to clinical data by individual clinical researchers
- Forked React.js GUI app optimized for PCDC's use case (new features, better branding/responsive design, >80% reduced initial load, improved static typing & testing, etc.); calling to GraphQL API backend

Full-stack project - ICJIA Research Hub

Jan 2019-Dec 2019

- Built a suite of web apps for the R&A Unit to publish criminal justice data and research that expedites the publication process from days to minutes by removing ad hoc communication between researchers and IT
- CMS/API server with Node.js/Strapi & MongoDB, two internal use GUI apps & public GUI app with Vue.js

education

The University of Chicago, MA in Social Sciences (GPA 3.925/4.0)

Colgate University, BA in Sociology & Anthropology (GPA 3.93/4.0)