

James DeMarco

Lead Software Engineer

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Portfolio: jedemarco1030.vercel.app

PROFESSIONAL SUMMARY

Lead Software Engineer with nearly a decade of experience designing, building, and maintaining scalable web applications and data-driven platforms in enterprise and consumer-facing environments with complex data, security, and performance requirements. Specialized in React, TypeScript, Next.js, and modern frontend architecture, with a strong emphasis on accessibility, reliability, and developer experience. Proven ability to own complex systems, modernize legacy codebases, mentor engineers, and collaborate cross-functionally to deliver reliable, high-impact software.

Core Skills:

- **Frontend & UI Development:** React, TypeScript, Next.js (App Router), Redux, JavaScript (ES6+), HTML, CSS, Tailwind CSS, ShadCN, Material UI, Responsive Design, WCAG Accessibility (Vue 3 – exposure)
- **Backend & APIs:** Node.js, REST APIs, GraphQL, Prisma, PostgreSQL, Supabase, NextAuth, Java Spring Boot, Python
- **AI & Data Integration:** OpenAI, Groq, AI-powered recommendations, analytics-driven features
- **Testing & Quality:** Jest, React Testing Library, Cypress, Playwright, Storybook, Selenium
- **Cloud, DevOps & Observability:** AWS (Lambda, CloudFront, S3), Docker, Vercel, Jenkins, CI/CD pipelines (GitHub Actions, Jenkins), LaunchDarkly, New Relic, Grafana, Splunk
- **Practices & Collaboration:** Agile/Scrum, Jira, Git, GitHub, Bitbucket, UX collaboration, performance optimization, security best practices

PROJECTS

Fandom AI | Full-Stack Platform

08/2025 - Present

<https://fandom-ai.vercel.app/>

Demonstrates end-to-end ownership of a production-quality platform, from architecture and data modeling to performance optimization and user experience.

- Designed and implemented a Next.js 15 + TypeScript architecture using App Router and modern server/client component patterns
- Integrated multiple external APIs (RAWG, TMDb, OpenLibrary, Supabase) with typed clients and comprehensive error handling
- Built a unified search and filtering experience across media types, including pagination and optimized data loading
- Implemented authentication and authorization using Supabase with row-level security (RLS) and protected user routes
- Designed normalized PostgreSQL schemas supporting favorites, watchlists, user profiles, and analytics
- Added AI-powered recommendations using OpenAI/Groq to improve content discovery and personalization
- Optimized performance through client-side caching, lazy loading, and efficient API usage
- Built a mobile-first, accessible UI using Tailwind CSS and responsive design principles

WORK EXPERIENCE

Lumen Technologies - Monroe, LA

09/2025 - Present

Lead Software Engineer (Remote)

- Lead frontend architecture and implementation for service assurance and network analytics platforms
- Designed and delivered secure, scalable dashboards that improved operational visibility and supported faster issue identification across complex telecom infrastructure
- Collaborated with data and ML teams to integrate AI-driven monitoring and predictive analytics into production systems
- Established frontend engineering standards and review practices adopted across multiple initiatives, improving consistency and long-term maintainability
- Partnered with business, operations, and engineering stakeholders to align technical solutions with organizational goals
- Served as a technical point of contact for frontend-related decisions across multiple projects
- Mentored engineers and provided technical guidance across ongoing initiatives
- Ensured applications met security, regulatory, and industry compliance requirements in cloud-based environments

Fandom AI - Remote

02/2024 – 09/2025

Software Engineer (Remote)

- Built production-grade applications using Next.js, TypeScript, and modern React patterns
- Created a reusable project template to accelerate development and promote consistency
- Evaluated and implemented UI strategies using Tailwind CSS and component libraries
- Integrated REST and GraphQL APIs to support rich, data-driven user experiences
- Implemented authentication solutions using NextAuth and Supabase
- Added automated testing with Jest, React Testing Library, and Cypress
- Introduced Storybook for component documentation and visual validation
- Integrated AI-powered features for personalized recommendations and discovery

Vestmark - Wakefield, MA

04/2022 – 02/2024

UI Engineer (Remote)

- Developed reusable React components for enterprise financial platforms serving major institutional clients
- Built interactive dashboards and data visualizations in close collaboration with product and design teams
- Modernized frontend architecture by migrating tests from Enzyme to Jest, enabling upgrades to newer React and Node versions
- Improved developer experience through shared UI patterns, tooling, and coding standards
- Contributed to a common frontend framework used across multiple products
- Supported performance and serverless workflows using AWS CloudFront and Lambda

Optimizely - Nashua, NH

06/2021 – 04/2022

Software Engineer II (Remote)

- Contributed key features to a large-scale experimentation and feature-flagging platform
- Built reusable, type-safe React components for an open-source UI library
- Implemented state management using Flux and Immutable.js
- Delivered modern JavaScript applications using Webpack, Babel, and Node.js
- Worked closely with designers to ensure accurate and consistent UI implementation

Express Scripts/Cigna - Franklin Lakes, NJ

09/2015 – 06/2021

Software Engineer (Hybrid)

- Developed and maintained consumer-facing React applications used by millions of members
- Led accessibility improvements by implementing WCAG 2.0 standards
- Improved performance and stability through dependency upgrades and refactoring
- Integrated analytics and experimentation tools including Adobe Analytics and LaunchDarkly
- Built CI/CD pipelines using Jenkins PCF to support multi-environment deployments
- Mentored new engineers and supported cross-team collaboration and knowledge sharing

EDUCATION

Bachelor of Science in Information Systems - 2013

Ramapo College of New Jersey - Mahwah, NJ