James DeMarco

Software Engineer

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PROFESSIONAL PROFILE

As a software engineer, collaborate with Product Owners, Architects, and fellow Scrum team members in an Agile environment to create reusable and configurable components for products. Over eight years of experience in software engineering, with a focus on UI development and design, along with a web development certificate from Ramapo College of New Jersey.

Passionate about creating interactive dashboards, data visualizations, and dynamic experiences that meet user needs and expectations. Utilize React, TypeScript, Jest, UI, and UX principles to deliver high-quality code, optimize performance, and ensure accessibility.

Provide leadership and proactively introduce improvements to the architecture, code, tools, pipelines, and processes. Always eager to learn new skills, innovate when opportunities arise, automate when possible, confront challenges head-on, and create something to be proud of.

Core Competencies:

- **Development**: React JS, Redux, Next JS, JavaScript, TypeScript, Node JS, GraphQL, Prisma, NextAuth, Java SpringBoot, Python, React Native, PHP

- **Testing**: Jest, React Testing Library, Cypress, Storybook, Enzyme, Selenium, Playwright

- **Design**: HTML, CSS, Tailwind CSS, Figma, WCAG Accessibility, Responsive Design, Block Element Modifier (BEM), Bootstrap, Material UI, ShadCN

- **Management**: JIRA, Agile, Scrum, Kanban, UX Research, Cross-team Collaboration

- **Tools**: Node, NPM, Yarn, Git, GitHub, BitBucket, Vercel, Jenkins PCF, AWS, Docker, LaunchDarkly, Adobe Analytics, SonarQube, Alfresco CMS, Splunk, NewRelic, Grafana, Postgres, Supabase, OpenAI

PROJECTS

FANDOM AI
08/2025 - Present

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

Full stack entertainment platform using Next.js, TypeScript, Tailwind CSS, Supabase, PostgreSQL, Python, RAWG API, TMDB API, OpenLibrary API, Groq AI

- Integrated 4 external APIs (RAWG Games, TMDB Movies/TV, OpenLibrary Books, Supabase) with TypeScript clients and comprehensive error handling
- Implemented Supabase authentication with row-level security (RLS), secure API key management, and protected routes for user-specific features
- Built unified search across 4 content types with real-time filtering, pagination, and AI-powered recommendations using Groq integration
- Designed mobile-first interface with Tailwind CSS, featuring tabbed navigation, modal dialogs, and optimized layouts for all screen sizes
- Created normalized PostgreSQL schema with favorites system, user profiles, and analytics tracking across multiple media types
- Developed comprehensive CRUD operations including favorites management, watchlists, user analytics dashboard, and content comparison tools
- Implemented client-side caching, lazy loading, optimized API calls, and efficient data transformation for large datasets
- Uses Next.js 15 App Router, TypeScript, Tailwind CSS, Supabase, PostgreSQL, Python analytics scripts, and RESTful API architecture

WORK EXPERIENCE

LUMEN TECHNOLOGIES, Monroe, LA   09/2025 - Present

Lead Software Engineer (Remote)

Used React to design modern data analytics dashboards.
- Worked collaboratively with internal clients to design, prototype and build secure modern user interfaces for new and existing service assurance systems
- Drove the architecture, design, and implementation of software solutions for service assurance, ensuring scalability, security, and performance
- Developed and implement automated solutions using AI/ML to enhance proactive network monitoring and incident resolution
- Improved fault detection, incident management, and predictive analytics capabilities within service assurance platforms
- Defined best practices for software engineering, code quality, and system reliability within the department
- Worked closely with operations, business teams, and engineering to align software solutions with strategic objectives
- Leveraged big data analytics, telemetry, and monitoring tools to optimize network performance
- Ensured software solutions adhere to industry standards, cybersecurity best practices, and regulatory requirements
- Provided technical guidance to junior engineers, fostering innovation and continuous improvement
- Designed and implement secure, scalable, and highly available cloud infrastructure

FANDOM AI, Remote   02/2024 – 09/2025

Software Engineer (Remote)

Currently engaged in creating projects related to my interests in order to gain a better understanding of the work I've done the last number of years and become more familiar and experienced with modern tools and technologies.
- Worked on building projects using Next JS and TypeScript such as fandom-ai.vercel.app
- Explored the pros and cons between using Tailwind CSS or a component library like ShadCN
- Created a reusable template that can be used for future projects
- Planned and building projects that explore my interests such as video games, Pokemon, hockey, Marvel, and Star Wars
- Made use of APIs with either REST or GraphQL for these projects to display data in a way that would make me want to use the application
- Researched options for user management such as NextAuth or Auth0
- Added tests to these projects with Jest and React Testing Library
- Implemented additional tools for enhancing these project with Storybook and Cypress
- Used OpenAI library to provide AI-powered features to users such as game recommendations

VESTMARK, Wakefield, MA   04/2022 – 02/2024

UI Engineer (Remote)

Collaborated with product owners and software engineers in an Agile environment across multiple teams to understand user requirements and create single-page applications by creating reusable and configurable components in React that met product and user experience requirements for the VAST platform which served clients like Fidelity, Edward Jones, and Charles Schwab.
- Contributed to the development of interactive dashboards, data visualizations, and dynamic experiences through tight collaboration with product designers and project team members.
- Provided leadership and proactively introduced improvements to architecture, code, tools, pipelines, and processes such as converting unit tests from Enzyme to Jest in order to upgrade to the latest version of React and Node JS.
- Championed the developer experience by adhering to the organization's code quality standards and providing feedback to uphold these standards like following accepted guidelines when implementing custom CSS styles.
- Leveraged strong architecture, implementation, and UX skills to create and enhance a common framework and toolset for all Vestmark products and engineers with React, TypeScript, and libraries such as AG Grid.

- Participated in an AWS Certified Cloud Practitioner training course that allowed me to become more familiar with our AWS setup as well as get exposure to working with Lambda and Cloudfront.
- Utilized Node JS with React applications to create dynamic user experiences as well as simplify project management by using package managers such as NPM and Yarn to manage front end dependences and libraries.
- Gained experience with AWS CloudFront for content delivery and caching, improving website performance by reducing latency, and ensuring faster content delivery to users globally.
- Had exposure to building simple serverless applications using AWS Lambda, integrating with services like API Gateway and S3 for seamless cloud solutions.

OPTIMIZELY, Nashua, NH   06/2021 – 04/2022

Software Engineer II (Remote)

Coordinated with engineering and product team to identify and contribute major features to the Optimizely experimentation platform as well as designed and built the experiences that enabled customers to manage experiments throughout the experimentation product suite.

- Built open-source Flux implementation using Immutable.js data structures.
- Wrote ES2015 code and leveraged Webpack, Babel, and Node JS to deliver applications written with clean code delivered to users.
- Created React components using TypeScript that were reusable, generic, and lived standalone in freely available OUI library.
- Worked on several UI enhancements to the flags application by using custom CSS styles to fix any bugs and have the UI align with the mocks from Figma.
- Utilized Node JS with React applications to create dynamic user experiences as well as simplify project management by using package managers such as NPM and Yarn to manage front end dependences and libraries.

EXPRESS SCRIPTS/CIGNA, Franklin Lakes, NJ   09/2015 – 06/2021

Software Engineer (Hybrid)

Worked on Agile teams to deliver multiple consumer-facing products in the B2C member web space developed in React. These reached and improved the lives of millions of members throughout the country while also implementing tools to track analytics with Adobe and run A/B tests with LaunchDarkly, which led to increased member satisfaction and conversion rates, along with the optimization of several applications.

- Engaged in cross-team collaboration to assist other developers with React JS and Redux work, engaged with UX partners, upheld company standards, and increased knowledge transfer throughout software organization.
- Led efforts to make applications more accessible by following the WCAG 2.0 guidelines to enhance the user experience for disabled and visually impaired users.
- Onboarded new team members and mentored them in systems and processes used by the team until they met the productivity standards expected by the organization.
- Took the initiative to help future-proof the applications by upgrading internal and external core dependencies that increased performance, decreased amount of code used, and avoided possible breaking changes.
- Updated Java SpringBoot projects to the latest dependency versions while also setting up monitoring dashboards to capture metrics for the APIs being used.
- Managed content coordinated by marketing teams using Alfresco CMS in order to allow the team to dynamically update marketing content in a quick and efficient manner.
- Utilized Node JS with React applications to create dynamic user experiences as well as simplify project management by using package managers such as NPM and Yarn to manage front end dependences and libraries.
- Built pipelines with Jenkins PCF that allowed React applications to deploy to dev, QA, and production environments while also coordinating with release management to deploy new code to production.

EDUCATION

Bachelor of Science, Information Systems, RAMAPO COLLEGE OF NEW JERSEY, Mahwah, NJ (2013)