

Adam Novak

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Summary

Senior Full-Stack Engineer with 9+ years of experience designing, developing, and scaling modern web applications. Specializes in full-cycle product development using Node.js, NestJS, React, and Next.js, with additional experience in Vue.js and Angular. Adept at leading technical initiatives, optimizing system performance, and mentoring engineering teams. Proven success in delivering high-performance SaaS platforms, secure APIs, and robust CI/CD pipelines in both startup and enterprise environments.

Skills

- **Programming Languages:** JavaScript, TypeScript
- **Frontend Development:** React, Next.js, Vue.js, Angular, Redux, Tailwind CSS, HTML5, CSS3
- **Backend Development:** Node.js, NestJS, Express.js
- **APIs & Integration:** REST APIs, GraphQL, API integration
- **Databases:** MongoDB, PostgreSQL, MySQL
- **DevOps & Tools:** Docker, Git, GitHub Actions, CI/CD, Vercel, AWS EC2
- **Testing & Quality Assurance:** Jest, Cypress
- **Methodologies:** Agile, Scrum, TDD, Performance Optimization

Experience

Vitals

Oct 2024 - Present

Senior Full Stack Developer

- Built and scaled a SaaS platform serving over 100M monthly users, ensuring performance, security, and scalability.
- Developed full-stack features using **React**, **Node.js**, **MongoDB**, and **Tailwind CSS**, optimizing merchant onboarding and UI responsiveness.
- Designed and optimized **PostgreSQL** schemas, applying advanced indexing, query tuning, and partitioning to improve data throughput and reduce query latency across millions of records.
- Integrated **Prisma ORM** for type-safe database operations and introduced Drizzle ORM in new services to streamline schema migrations and ensure consistency across environments.
- Built **React** and **React Native applications from scratch**, including mobile apps with secure authentication (OAuth2/JWT) and seamless REST API integration.
- Built and deployed **microservices** with **Docker** and orchestrated workloads on **Kubernetes (EKS, GKE, AKS)**, including scaling, rolling updates, and secret management.
- Configured and maintained distributed messaging systems (**Kafka**, **RabbitMQ**) for event-driven architectures.
- Translated Figma wireframes into pixel-perfect, accessible components aligned with WCAG standards.
- Applied advanced **state management (Redux, MobX)** to improve consistency across web and mobile apps.
- Collaborated with a distributed team to deliver updates rapidly, efficiently translating design wireframes into quality code.
- Optimized performance through rigorous testing (**Jest**, **Cypress**) and CI/CD pipelines, fostering best practices in code deployment.
- Integrated third-party services (analytics, payments) using secure and scalable API architecture.
- Experienced with **HubSpot CMS**: built responsive, SEO-friendly templates and modules, integrated HubSpot APIs/CRM features, and optimized sites for performance and accessibility.
- Managed deployments on **AWS (ECS, Lambda, S3, CloudFront, RDS, Aurora)** with Infrastructure-as-Code using Terraform.
- Led implementation of CI/CD pipelines with **GitHub Actions** and Docker, cutting deployment times by 40%.
- Maintained and refactored legacy **Angular** components as part of a long-term migration plan.
- Used **Webpack** and **Vite** for module bundling, asset optimization, and build performance improvements, reducing load times and improving Core Web Vitals scores.

Brainville

Sep 2020 - Sep 2024

Full Stack Developer

- Delivered comprehensive full-stack JavaScript solutions using **Node.js**, **React**, **Next.js**, **NestJS**, **Express**, and **MongoDB**, addressing both front-end UI/UX design and back-end efficiencies.
- Architected and deployed **NestJS microservices** with PostgreSQL backends, focusing on query optimization, caching (Redis), and API performance.
- Applied **GraphQL** schema design with resolvers in TypeScript, supporting both internal tooling and external client integrations.
- Developed robust, type-safe components and modules in **TypeScript**, while also maintaining and refactoring **Vanilla JS** code for legacy compatibility.
- Designed and secured REST and GraphQL APIs for internal services and external integrations.
- Built responsive dashboards and admin panels with reusable UI libraries in **Tailwind CSS**.
- Managed complete project lifecycles from discovery to deployment, interacting with clients to accurately capture requirements for

intuitive user experiences.

- Built reusable UI components and implemented **NgRx** for efficient state management.
- Developed authentication, authorization, and session management using **JWT** and **OAuth2**.
- Created a test-driven development workflow with **Jest** and **Cypress**, improving stability and delivery confidence.
- Developed responsive web interfaces that incorporated security best practices and performed optimized API integrations.
- Collaborated with product owners and clients, acting as a technical lead on backend-heavy projects.
- Improved scalability and reliability by containerizing services with **Docker** and running them on **Kubernetes (EKS, GKE, AKS)**.
- Enhanced system performance with PostgreSQL optimization and **Kafka/RabbitMQ**-based event streaming.
- Designed and maintained automated CI/CD pipelines using **GitHub Actions** and **GitLab CI**, enabling faster, more reliable deployments.
- Deployed full-stack applications on **AWS EC2** and **Vercel**, ensuring high availability.
- Optimized **HubSpot CMS**-based websites for performance, accessibility, and analytics integration, ensuring cross-browser compatibility and alignment with marketing campaigns.
- Built lightweight internal tools and interfaces using **Vue.js**, enhancing QA and operations workflows.

Tapio

Jan 2019 - Aug 2020

Senior Front End Developer | Full Stack Developer

- Directed frontend development for a carbon management platform, crafting responsive and accessible interfaces with **React**, **TypeScript**, and **Tailwind CSS**.
- Developed backend services in **Node.js + NestJS** with PostgreSQL storage for emissions tracking and reporting systems.
- Designed SQL schemas for carbon credit transactions and implemented query-level optimizations to support high-volume datasets.
- Developed interfaces and workflows for crypto wallets, exchanges, NFT marketplaces, and **DeFi** platforms, integrating blockchain APIs and Web3 libraries.
- Implemented **GraphQL endpoints** unifying blockchain and sustainability services into a single API gateway.
- Built interactive dashboards and emissions reports using **Chart.js** and **D3.js**, translating complex data insights into clear and user-friendly visualizations.
- Developed and maintained responsive web interfaces using **Angular** (latest versions), TypeScript, HTML5, and CSS3, ensuring cross-browser compatibility and optimal performance.
- Ensured consistent design and functionality across platforms (iOS, Android, web).
- Collaborated with designers and product managers to integrate secure, efficient user workflows from design wireframes into production-ready code.
- Enhanced frontend architecture and component libraries to support scalability and high performance across diverse viewports.
- Prototyped interactive data widgets in **Vue.js** for stakeholder feedback sessions.

PlayWay

Jan 2017 - Dec 2018

Front End Developer

- Engineered dynamic web interfaces and interactive user experiences for game launchers and digital distribution platforms using **React**, **JavaScript**, and **Webpack**.
- Integrated **REST APIs** to display real-time data such as release updates and gameplay stats, ensuring consistency with secure application design.
- Supported UI feature parity between **web and companion mobile apps**, maintaining consistent design and functionality.
- Created themeable and brand-aligned UI components across multiple game products.
- Built high-performance 2D WebGL experiences with **PixiJS v6/v7**: scenes, sprite sheets, texture atlases, tiling sprites, filters, and custom pipelines.
- Reduced load time and bundle size using tree-shaking and lazy loading strategies.
- Collaborated with UX designers and game developers to align the frontend with branding requirements and responsive design principles.
- Assisted in frontend fixes for **Angular**-based admin tools used by partner studios.

Foxentry

Jun 2016 - Dec 2016

Software Developer Intern

- Constructed embeddable frontend widgets using **JavaScript**, **TypeScript**, and **React**, transforming design wireframes into secure and responsive UI components.
- Integrated seamless API connections to various client systems, enhancing CRM platforms and checkout processes.
- Coordinated with backend developers to ensure smooth integration with data services, contributing to comprehensive SDK documentation and developer support tools.
- Supported internal dashboards with minor contributions using **Vue.js** components.

Education

Charles University

B.S, Computer Science

Aug 2012 - May 2016