Patrick Kohler

Senior Full Stack developer

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✏ Summary

With 12+ years of full-stack development experience, I specialize in React.js, Vue.js, Next.js, and backend technologies like Node.js, Nest.js and Ruby on Rails. I have a strong track record in developing, deploying, and optimizing high-performance web applications. My expertise spans both front-end and back-end development, creating seamless user experiences and managing server-side logic. I write clean, maintainable code and work closely with cross-functional teams to deliver high-quality software, consistently exceeding expectations in fast-paced environments.

🎓 Education

Bachelor degree of Computer Science   09/2006 - 07/2010
ESNIG   Neuchâtel, Swiss

🧠 Skills

React ● ● ● ● ●
React Hooks, Redux, Antd, MUI

React Native(Expo) ● ● ● ● ●
React Native Paper, NativeBase, React Native Elements, UI Kitten, React Navigation, React Native Navigation

Nest.js
TypeScript, REST API Design, GraphQL Integration, TypeORM / Prisma / Sequelize, TCP, Redis, NATS, MQTT

Laravel ● ● ● ● ●
Redis, Rabbit, Elastic Search, My SQL, Mongodb

HTML5, CSS3, Tailwind CSS, TypeScript, JavaScript, Axios ● ● ● ● ●

Next.js ● ● ● ● ●
SSR(Server Side Rendering), SSG(Static Site Generation), API routes, SEO

Node.js ● ● ● ● ●
JavaScript, Express, Mongodb
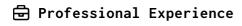
Ruby on Rails ● ● ● ● ●
PostgreSQL / MySQL, RSpec, JWT / OAuth2

ASP.NET Core (C#) ● ● ● ● ●
Entity Framework Core (EF Core), LINQ, SQL / T-SQL, xUnit / NUnit / MSTest

WebSocket, Vite, Webpack, Git, Docker, Jest ● ● ● ● ●

🌐 Language

English ● French ● Italian ● German

💼 Professional Experience

Gymsales   06/2023 - 02/2025
Senior Full Stack Engineer   Texas, US
- Developed and maintained features for GymSales' customer engagement
  platform, integrating React on the frontend with Nest.js for the
  backend.
- Built responsive, dynamic user interfaces using React and JavaScript,
  improving lead tracking and member onboarding flows for fitness
  centers.
- Created and consumed RESTful APIs using Nest.js, ensuring fast and
  secure data exchange between the client and server.
- Designed and optimized SQL Server queries and schemas to support
  scalable customer and sales data operations.
- Managed user authentication and role-based authorization using JWT and
  OAuth2.
- Integrated third-party APIs for SMS, email marketing, and scheduling
  tools to enhance communication automation.
- Utilized Azure DevOps for CI/CD pipelines and deployments, improving
  delivery speed and reliability.
- Collaborated with cross-functional teams (QA, design, product) in an
  Agile/Scrum environment, participating in sprint planning, daily stand-
  ups, and code reviews.
- Reduced lead conversion time by 30% by redesigning the lead intake flow
  with React Hooks and optimized API calls.
- Improved API response times by 40% through backend optimization and
  database indexing strategies.

FairGame Inc   06/2021 - 04/2023
Senior Full Stack Engineer   CA, US
- Built and maintained a high-performance crypto trading platform using
  React.js and Nest.js with TypeScript.
- Led front-end development using React, Redux, and React Hooks, ensuring
  scalable and maintainable architecture.
- Designed scalable RESTful APIs and WebSocket services for real-time
  trading, account management, and market data
- Developed and optimized trading modules for order submission, status
  management, and history tracking.
- Enhanced fund management features, including deposit/withdrawal and
  multi-currency support, with KYC and encrypted transactions for
  security.
- Implemented performance optimizations such as virtual scrolling, lazy
  loading, and code splitting to improve load times and responsiveness.
- Deployed microservices using Docker, managed with GitHub Actions, and
  served through NGINX on cloud infrastructure.

Sun-Groupe Inc   02/2015 - 04/2021
Senior Lead Developer   Zurich,
1. Main Project Development (React + Ruby on Rails)   Switzerland
- Led full-stack development of the company's main website using React
  for dynamic interfaces and Node.js for efficient backend APIs, ensuring
  smooth data interaction and an improved user experience.

- Designed and implemented user registration, login, and profile management modules with JWT-based authentication and authorization for enhanced security.
- Utilized Redux for global state management, optimizing page performance and ensuring seamless execution of complex business logic across pages.
- Developed core e-commerce features, including product display, cart management, and order generation, ensuring data consistency and synchronization.
- Collaborated with the design team to implement responsive design, ensuring a great user experience across all devices.

2. New Product Advertising Website (React + Node.js)
- Developed and optimized a product advertising website, utilizing React and Node.js for interactive, dynamic features.
- Included product descriptions, feature demos, promotional activities, and user-submitted forms to generate leads and integrate data into a CRM system for marketing follow-ups.
- Implemented high-performance data loading and display using asynchronous data loading and lazy loading techniques to ensure fast page load times.

3. Front-End & Back-End Performance Optimization
- Improved front-end load times using React's lazy loading, code splitting, and other performance optimization techniques.
- Optimized Node.js back-end APIs with caching, batch queries, and database indexing, resulting in faster response times.
- Utilized Webpack and Babel to bundle and transpile front-end resources, enhancing page load and execution performance.

4. Testing & Deployment
- Wrote unit and integration tests using Jest and Mocha for front-end and back-end functionality, ensuring high code quality and system stability.
- Configured CI/CD pipelines with Jenkins and GitHub Actions for automated build and deployment, increasing development efficiency.
- Deployed applications to AWS, utilizing Docker for containerized deployment, ensuring scalability and ease of maintenance.

Medical Media Inc   04/2012 - 12/2014
Full Stack developer   NY, US

1. Factory Management System (DHTML + .Net)
- Designed and implemented the full-stack architecture for the factory management system using React for dynamic UI and Node.js for backend APIs.
- Developed order management and production scheduling modules, ensuring timely production and delivery through integration with internal systems for real-time production and inventory tracking.
- Built a product management system with real-time inventory updates using Node.js and MongoDB/MySQL.
- Implemented WebSocket for real-time progress tracking and order updates.
- Automated production reports and data analysis to aid decision-making.
- Optimized front-end performance with React lifecycle management, Redux for state management, and API optimizations to reduce latency.

2. Logistics Management System (PHP/Laravel)

- Built the front-end logistics management interface using Vue.js, ensuring a clean and user-friendly design for tracking logistics and order progress.
- Integrated third-party logistics systems via API for real-time order tracking and updates.
- Developed the back-end using Laravel, designing RESTful APIs for managing orders, customer info, and delivery statuses.
- Created a backend admin system for managing and intervening in orders, such as modifying delivery addresses or times.
- Developed a user account management system with registration, login, and password reset features, alongside a notification system for order status updates via email and SMS.
- Implemented data analysis and reporting tools to improve logistics efficiency based on regional and time-based order data.

3. Project Collaboration & Management
- Collaborated closely with product managers, designers, and back-end developers to ensure accurate implementation of requirements and timely feedback on development progress.
- Participated in Agile development cycles, including requirements reviews, technical discussions, and iterative development to meet project deadlines and quality standards.
- Regularly communicated with the team, contributing to problem-solving and technical discussions to improve team efficiency and solution quality.

EDUTEC   11/2010 - 12/2011
Junior Software Engineer   Nyon, Switzerland

1. Front-End Development & Page Design
- Developed and optimized web pages using HTML, CSS, PHP, JavaScript, and TypeScript, ensuring responsive design and cross-browser compatibility.
- Wrote efficient, modular code and used CSS Flexbox and Grid layouts for complex webpage designs, ensuring a great user experience.
- Assisted in designing and implementing front-end features, such as user authentication, form handling, and data presentation, with JavaScript interacting with back-end systems.

2. Learning & Applying PHP, Angualr, React
- Gained hands-on experience with PHP, Angular, React, developing dynamic single-page applications and static websites.
- Used React Router for seamless navigation between pages, ensuring smooth user transitions and enhanced user experience.

3. Back-End Learning & C#, Node.js, Laravel Application
- Gained proficiency in Node.js and Laravel, assisting in the development and debugging of RESTful APIs.
- Collaborated with front-end developers to ensure API designs met front-end data needs and contributed to implementing data access and user authentication.
- Set up development servers in Node.js and used Express.js to handle HTTP requests and responses.

4. Version Control & Team Collaboration
- Managed code versions using Git and GitHub, ensuring efficient version control, merging, and deployment.

- Participated in code reviews with team members, learning and improving
  code quality while maintaining strong communication and collaboration
  within the team.