

# Vadim Nicolai

Senior Full Stack Engineer



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## Summary

Senior Full Stack Engineer with 12 years of experience building scalable web applications using React, Go, and Rust. Expert in modern frontend architectures, microservices, and performance-critical systems. Active open-source contributor to Nautilus Trader algorithmic trading platform with 100+ merged PRs. Domain expertise in E-commerce, FinTech, and enterprise SaaS, delivering high-performance solutions across the full technology stack.

## Open Source Contributions

### ○ Nautilus Trader

Apr 2025 - present

#### Open-Source Contributor – Algorithmic Trading Engine

- Contributed 100+ pull requests to core trading engine and exchange connectivity modules in Rust and Python.
- Built production exchange adapters for dYdX v4 and Hyperliquid with REST, WebSocket, gRPC, authentication, rate limiting, and execution clients.
- Enhanced OKX and Kraken integrations with historical data support, pagination, and WebSocket reliability improvements.
- Implemented high-performance technical indicators in Rust with Python/Cython parity, improving PnL calculations and monetary precision.

## Work Experience

### ○ Vitrifi

Mar 2022 - Dec 2025

#### Senior Full Stack Engineer

- Architected micro-frontend portal using Go microservices, OpenAPI, and shared React components, improving user experience and team velocity.
- Led API migration from OpenAPI to GraphQL with Apollo Client, reducing data over-fetching and improving frontend performance by 30%.
- Drove frontend architecture decisions across multiple teams, ensuring consistent patterns, code quality, and TypeScript adoption.
- Reduced CI/CD build times by 40% by migrating to PNPM and optimizing Turborepo monorepo configuration.
- Implemented comprehensive integration testing strategy with automated test pipelines.
- Mentored junior developer through pair programming and code reviews.
- Tech stack:** React, React Query, Ant Design, Turborepo, gRPC, OpenAPI, Go, Echo, MongoDB

### ○ Wunderman Thompson Commerce

Aug 2021 - Jan 2022

#### Senior Frontend Engineer

- Built high-performance e-commerce components for basket and checkout flow, improving conversion rates and user experience.
- Led process improvements and established coding standards, linting rules, and PR review guidelines across the frontend team.
- Implemented design patterns including compound components and custom hooks for maintainable, scalable code.
- Recognized as top performer and recommended for team lead promotion based on technical leadership and collaboration.
- Tech stack:** React 17, Next.js 10, TypeScript, Styled Components, Jest, React Testing Library

### ○ Event Espresso

Oct 2019 - Apr 2021

#### Senior React Engineer

- Modernized legacy WordPress plugin admin interface with React and GraphQL, serving thousands of users on Event Smart SaaS platform.
- Contributed open-source code to public GitHub repositories with 50+ merged pull requests.
- Established SASS/BEM architecture, component library patterns, and React best practices for the development team.
- Improved code quality through comprehensive unit testing with Jest and end-to-end testing with Playwright.
- Collaborated with product team to design intuitive user interfaces for event registration and ticketing workflows.
- Tech stack:** React 16, React Apollo, GraphQL, WPGraphQL, WordPress, PHP, MySQL, Jest, Playwright.

### ○ Modus Create, Inc

Feb 2019 - Oct 2019

#### React Engineer

- Project: AARP Money Map** - Built scalable financial planning platform for AARP, helping millions of users navigate financial decisions and improve financial literacy.
- Designed component-based UI library with 40+ reusable components in collaboration with UX designers, ensuring design consistency across the platform.
- Implemented responsive design patterns ensuring optimal experience across desktop, tablet, and mobile devices.
- Configured CI/CD pipeline with Bitbucket, Sentry, SonarQube, and AWS CodePipeline for automated testing and deployments.
- Tech stack:** React 16.8, Hooks, Context API, React Apollo, Serverless Framework, GraphQL, DynamoDB, AWS Lambda

○ Atomate	Jun 2018 - Feb 2019
React Engineer	
<ul style="list-style-type: none"> <li>• <b>Project: Travlrr</b> - Built reusable React component library using advanced patterns (HOCs, render props, compound components).</li> <li>• Implemented secure authentication system with AWS Lambda, Auth0, and MongoDB.</li> <li>• Designed and built RESTful APIs following JSON:API specification.</li> <li>• Conducted code reviews and improved test coverage to reduce production bugs.</li> </ul>	
○ DevelopmentAID	Apr 2017 - Feb 2018
JavaScript Engineer	
<ul style="list-style-type: none"> <li>• Developed full-stack event planning application using Node.js, Express.js, Angular, and MongoDB.</li> <li>• Wrote comprehensive unit tests using Mocha and Assert.js.</li> <li>• Applied functional programming principles with Ramda.js for cleaner, more maintainable code.</li> </ul>	
○ Endava	Apr 2016 - Nov 2016
Front End Developer	
<ul style="list-style-type: none"> <li>• Developed responsive frontend interfaces for enterprise .NET application.</li> <li>• Collaborated with backend team to integrate RESTful APIs.</li> </ul>	
○ ProPeople (currently FFW Agency)	Oct 2013 - May 2015
Front End Developer	
<ul style="list-style-type: none"> <li>• <b>Project: Stanford University - Freeman Spogli Institute</b> - Built frontend for Drupal multisite serving Stanford's international studies department.</li> <li>• Delivered pixel-perfect, responsive implementations across all device sizes.</li> <li>• <b>Tech stack:</b> HTML5, CSS3, SASS, jQuery, Drupal</li> </ul>	
○ Best4u Group	May 2013 - Oct 2013
Front End Developer	
<ul style="list-style-type: none"> <li>• Converted PSD designs into responsive HTML/CSS/JavaScript templates.</li> <li>• Integrated templates with WordPress and proprietary CMS platforms.</li> <li>• Delivered pixel-perfect implementations with strong attention to detail.</li> </ul>	

## Education

CS Degree - Computer Science	
Tiraspol State University, Chișinău (Moldova)	Jan 2012 - Jan 2016