# KHOA TRAN VAN (Kane)

kt.itengineer@gmail.com   https://khoatran25.vercel.app

https://github.com/kanechan25   https://www.linkedin.com/in/khoatran2425/

## ABOUT ME

- A senior frontend-focused fullstack engineer with 7 years of experience delivering scalable, high-performance platforms.
- Hands-on with frontend architecture, performance tuning, AI integration, and team mentoring — across both startup and enterprise-scale codebases.
- Focused on scalability, component reuse, and long-term maintainability across product teams.

## TECHNICAL SKILLS

- Languages: TypeScript, JavaScript, SQL, GraphQL, C#, VB.NET, HTML, CSS/SCSS
- Frameworks: React.js, Next.js, Vue.js, NestJS, Node.js, Express.js
- Styling: TailwindCSS, Material UI, Ant Design, styled-components, SCSS.
- Testing: Jest, Cypress, Playwright, Unit Test, Integration Test, E2E Testing.
- Infra/DB: AWS, Vercel, MongoDB, MySQL, Redis
- Others tools: Figma, WebSocket, Docker, Git, OpenAI API

## WORK EXPERIENCE

### Nerd Labs, Singapore-based (Remote)                              May 2023 – Now

*Senior Frontend Engineer (Frontend Team Lead)*          *Team size: 14 (1 Tech Lead, 2 PO, 3 SC, 4 BE, 4 FE)*

- Architected frontend codebases using TypeScript, React, Next.js, Node.js, NestJS, GraphQL, SQL, MongoDB, and various styling libraries.
- Directly developed and optimized across multiple financial platforms (10K+ MAU), focusing on AI-integrated high-traffic client apps, real-time performance enhancement.
- Defined team workflows: design patterns, SSR best practices, core UI libraries, code reviews, CI checks, test coverage goals and frontend observability.
- Still hands-on: directly built core UI and logic for high-impact features, while also working closely with cross-functional teams to lead architecture and team direction.
- Prioritized test coverage for key features using Jest (unit), Playwright/Cypress (e2e), and built reusable test setups for consistent frontend quality.
- Built CI/CD pipelines with Vercel & AWS; managed automated deployments and DNS routing for multiple environments.
- Impact Highlights:
  ○ Reduced re-render and average page load time by 30% via caching, tree shaking, code-splitting, lazy loading, and aggressive render improvement.
  ○ Optimized rendering and prompt latency for near-instant feedback using React + Suspense + streaming API integration.
  ○ Implemented virtualization technique for dashboards rendering 100–300+ card items per view page, with performance maintained at 60 FPS.

### Technixo Software, Singapore-based (Remote)                   Feb 2021 – Apr 2023

*Senior Frontend Engineer*          *Team size: 18 (1 TO, 1 PO, 5 BE, 6 FE, 2 Mobile, 3 Tester)*

- Successfully delivered 3+ high-impact real-time B2C apps across decentralized exchange and digital asset catalogs using React, Next.js, Typescript, GraphQL, UI component frameworks and other frontend libraries.
- As a senior engineer, I directly developed core features — key modules like trading interfaces, media-rich product listings, and live price tracking views.
- Hands-on implementing real-time trading charts and live order books for the platform, using WebSockets to stream 10+ token pairs update/sec, ensuring smooth performance and scalability under high update frequency.
- Implemented frontend testing with Jest for logic-heavy components, and Cypress for regression and cross-browser flows.
- Collaborated closely with QA, BE & mobile teams using Agile/Squad model to deliver features under 2-week sprints.
- Also contributed backend when needed: built RESTful APIs and managed CI/CD pipelines on Vercel & AWS.
- Outstanding Outcomes:
  ○ Optimized performance across projects: improved TTI by ~30%, reduced JS bundle size by ~25%, and achieved CLS <0.1.

○ Applied virtual scrolling + memoization for real-time tables and NFT grids; scroll remained smooth under load.

## T&T Design, Synckey, Japan                                          Mar 2018 – Feb 2021

*Full-stack Web Engineer*                    *Team size: 10 (1 BA, 2 FE, 2 BE, 4 Full-stack, 1 Tester)*

- Developed project management software and reporting dashboards for internal teams using React, Redux, Node.js, Express, MySQL, AWS.
- Visualize large data systems to tabular and various chart types (multi-bar chart, slope chart, world map, heatmap matrix, …)
- Implemented key modules: authentication, multi-language (JP/EN), data filtering, role-based access, and real-time data items.
- Converted Figma/Sketch designs into high-quality UI web, ensuring full cross-browser & mobile compatibility.
- Researched and built a cloud infrastructure pipeline on AWS S3 + RDS + EC2, including auto backup strategy and DB migration flows.
- Delivered documentation and code comments in English, collaborated with Japanese engineers and project managers via Slack, Gitlabs, and Jira.
- Key Projects:
  ○ Project management software: https://app.cleversort.com
  ○ AI Reports for Stanford University: https://d3i91vx6n7fixv.cloudfront.net/

## NDC IT Consulting, Vietnam                                          June 2016 – Feb 2018

*.NET Software Engineer*                                          *Team size: 5 .NET Engineer*

- Built desktop-based calculation applications and add-ins using C#, VB.NET, and Windows Forms/WPF, targeting architectural modeling and construction estimation workflows.
- Designed and implemented algorithms for quantity takeoff, bidding evaluation, and structural component cost estimation in the applications.
- Developed CRUD-based interfaces and business logic integrating SQL Server and MS Access databases, focusing on data reliability and traceability.
- Worked closely with project leads and technical consultants to define system requirements, implementation workflows, and functional logic for domain-specific tools.
- Delivered multiple standalone utilities to optimize internal processes, improving productivity for clients by 30–50% in tasks such as material scheduling and structural cost breakdown.
- Key Outputs:
  ○ Built plug-in compatible with industry BIM tools (e.g., AutoDesk add-ins).
  ○ Laid technical foundation in systems thinking and modular architecture that now applies to building scalable applications.

## LANGUAGES

- English (professional working proficiency).
- Japanese (pre-intermediate).
- Vietnamese (native proficiency).