

NGUYEN NGOC TUONG VI

FRONT-END DEVELOPER

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ABOUT ME

Front-end developer with 4+ years of experience building dynamic, high-performance web apps using React. Passionate about clean, user-friendly interfaces and committed to continuous growth through learning and exploration.

SKILLS

ReactJs

JavaScript

TypeScript

NextJs

HTML/Css

EXPERIENCES

VietNam Blockchain Corporation

July 2023 - Present

BiwaseAI - Internal AI Chat Platform

- Built an **AI-powered assistant** to enhance **internal communication** and **knowledge sharing** across BIWASE.
 - Implemented **real-time streaming** data via native fetch streams for smooth, continuous AI interaction.
 - Improved performance with **virtual scrolling**, message caching, and incremental rendering.
 - Added **voice recording**, and **translation**, improving accessibility for all users.
 - Build a modular architecture with **Context API**, custom hooks, and **Zod** validation.
 - Enhanced UX with dark mode, responsive layout, and animated streaming feedback.
- **Technologies:** Next.js 15, React 19, TypeScript, TailwindCSS, ShadcnUI, TanStack Query
- **Achievement:** Delivered BIWASE's first AI-integrated chat platform, combining streaming, audio, and multilingual features in a single, scalable app.

WaterSense

- A proprietary **real-time water network monitoring** platform designed to optimize operations, enhance service quality, and reduce risks through live data visualization and anomaly detection.
 - Build a monitoring system for real-time tracking and management of smart water devices across multiple provinces.
 - Implemented a hybrid state model with **Zustand** and **React Query** efficient server caching.
 - Integrated **MapboxGL** for high-precision GIS visualization with custom draw tools, real-time device tracking, and 3D map views.
 - Developed real-time dashboards with **Socket.io** and **ApexCharts** to visualize sensor data and network status dynamically.
- **Technologies:** React 18, TypeScript, React Query, TailwindCSS, ApexCharts, Mapbox GL, Socket.io
- **Achievement:** Deployed a scalable real-time IoT and GIS monitoring platform that unified data from thousands of smart water devices, reduced response time to incidents, and improved data-driven decision-making across BIWASE's operations.

CRM Biwase Binh Duong and Binh Phuoc

- Built and launched BIWASE's first CRM system to centralize customer and operational data, streamline workflows, and boost productivity through automation. The system was later expanded to Binh Phuoc and is now actively used company-wide.
 - Secure authentication with **JWT refresh tokens**, **Axios interceptors**, and role-based routing for user-level permissions.
 - Developed reusable UI components including advanced tables, custom forms, and notifications using **TailwindCSS** and **DaisyUI**.
 - Integrated real-time notifications via **Socket.io** and built reporting tools with export to Excel/PDF using **ExcelJS** and **@react-pdf/renderer**.
 - Enhanced performance with **lazy loading**, **code-splitting**, and **React Query** caching, ensuring smooth UX on large data sets.
 - Improved developer experience with ESLint, strict typing, and multi-environment support for production readiness.
- **Technologies:** React 18, TypeScript, Redux Toolkit, React Query, TailwindCSS, DaisyUI, Socket.io
- **Achievement:** Delivered a **scalable**, secure CRM platform that streamlined BIWASE's workflows and integrated with external systems including **call centers**, **e-contracts**, and **billing**.

ITBee Solutions

CRM System

Jan 2021 - May 2023

- Built a CRM platform to streamline sales processes and unify customer management in one scalable system.
 - **User, employee and customer management:** Centralize and access stakeholder data with ease.
 - **Department and role management:** Define structure and assign permissions efficiently.
 - **Stock, import and export management:** Monitor inventory in real time for optimal logistics.
 - **Category, product and order management:** Manage catalogs, track orders, and organize products.
 - **Integrated chat functionality:** Enable instant team and customer communication.
- Technologies: ReactJS, Typescript, TailwindCss, MUI

E-commerce

- Focused on building robust affiliate and e-commerce platforms to optimize online business operations.
 - **Product management:** Efficiently handling product catalogs, listings, and inventory.
 - **Human resource management:** Streamlining team organization and workflow.
 - **Ranking system:** Implementing robust algorithms for content and product visibility.
 - **Commission management:** Ensuring accurate and transparent tracking of affiliate earnings.
- Technologies: ReactJS, Javascript, Ant

Real-estate

- Developed a comprehensive marketplace and workplace platform tailored for the real estate industry.
 - **Engaging blogs:** A platform for industry insights, news, and expert advice.
 - **Real-time messaging:** Instant communication for seamless collaboration and client interactions.
 - **Intelligent recommendation system:** Personalized suggestions to match users with relevant properties or services.
- Technologies: ReactJS, Typescript, MUI

PERSONAL PROJECT

Shopee User Page Clone

2023

- A frontend web application replicating the user-facing interface of Shopee, built to practice and demonstrate proficiency in modern React ecosystem tools and web architecture best practices.
- The project focuses on authentication, state management, routing, and performance optimization within a real-world e-commerce layout.
- Key features:
 - **Authentication with JWT:** Includes auto-refresh token mechanism
 - **Form validation:** Built using Yup and React Hook Form
 - **URL synchronization:** Pagination, filtering, and product search state synced via query strings
 - **State management:** Implemented with React Query for asynchronous operations
 - **Routing:** Private/public route separation
 - **Performance:** Code splitting and build size optimization
 - **SEO:** Enhanced with React Helmet
- Technologies: ReactJS, TypeScript, Vite, REST API, React Query, React Hook Form, Yup, ESLint, Prettier, React Helmet
- Website: <https://vi-clone-shopee.vercel.app> | Account for testing: userVi@gmail.com / 123123
- Github: <https://github.com/nntvi/viCloneShopee>

EDUCATION

Ho Chi Minh University of Nature Resources and Environment

2016 - 2020

Bachelor's Degree in Information Technology