HAI NGUYEN

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SOFTWARE ENGINEER

Software Engineer with 5+ years of experience building high-performance, scalable web applications using React and TypeScript. Strong background in enhancing payment systems, optimizing frontend performance, and delivering secure, user-centered features across e-commerce, blockchain, and SaaS platforms. Experienced in integrating REST APIs, improving CI/CD workflows, and collaborating with cross-functional teams to deliver polished, production-ready interfaces. Skilled in developing reusable UI components, modernizing legacy codebases, and implementing authentication and Web3 capabilities.

• Agile Development & Cross-functional Collaboration • UI/UX • Performance Optimization
• Problem Solving & Critical Thinking • API Integration

Languages: JavaScript, Typescript
Web: React, HTML, HTML5, CSS, CSS3, ChakraUI, MUI/Material UI, Element UI, Redux, Vuex,
Web Services: REST API, API Gateways, CORS, Axios, JSON
Web/App Servers: Node.js
Frameworks: VueJS, NextJS
Design Patterns: Singleton, Factory Method
SDLC: Agile, Scrum
Tools: JIRA, Git, Figma, Redux, Npm, Npx, Yarn, Fabric.js, Lighthouse, Webpack

*CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).*

PROFESSIONAL EXPERIENCE

VNG CORPORATION, Ho Chi Minh City, Vietnam • 05/2022 – 01/2025
A leading technology company specializing in digital entertainment, social networking, and financial technology.

Software Engineer
Developed and maintained high-traffic web applications for digital payment systems and in-game commerce.

- Redesigned and optimized the user payment interface for Webshop Payment using React and REST APIs, resulting in a 20% reduction in payment processing time and a smoother user checkout experience.
- Engineered and deployed an auto-debit feature and integrated the ZaloPay payment gateway, enabling automatic game recharges and simplifying the payment flow for users.
- Restructured the core payment system architecture to improve code maintainability and optimized the in-app payment experience, leading to a more reliable and faster transaction process.
- Enhanced site functionality by implementing a fuzzy search algorithm for Webshop Payment and conducting front-end performance optimizations, which increased the Lighthouse performance score from 75 to 95.
- Collaborated with UX/UI design and business analysis teams to transform wireframes into functional, interactive web applications using React and TypeScript and established secure API integrations with back-end services.
- Led development of core Blockchain Wallet features, implementing social login and ERC20/721/1155 token transactions with Web3.js/ethers.js to deliver a secure, versatile wallet.
- Designed and developed a Software Development Kit (SDK) for decentralized application (Dapp) integration, featuring Two-Factor Authentication (2FA) and Web3Auth for enhanced security and user onboarding.

Technologies Used: *JavaScript, React JS, VueJS, Redux, Vuex, NextJS, HTML, HTML5, CSS, CSS3, Chakra UI, Element UI, Framer Motion, Webpack, NPM, Yarn, Lighthouse, Figma.*

SUTRIX SOLUTIONS, Ho Chi Minh City, Vietnam • 11/2020 – 05/2022
Sutrix Solutions specializes in web and mobile application development, digital marketing, and IT consulting.

Front-End Engineer
Developed custom web applications and enterprise-level solutions for global clients.

- Engineered a library of 10+ reusable UI components for a client's design system using React, resulting in a 15% reduction in front-end development time for subsequent project phases.

- Converted existing codebase for the Lease Self Service project from Vue.js to React.js, resulting in improved maintainability, better performance, and alignment with the company's modern technology stack.
- Worked closely with back-end developers to integrate APIs and services for web platforms using Axios and RESTful standards, resulting in faster data communication and smoother front-end–back-end synchronization.
- Developed and integrated key website features by implementing client-side logic and consuming RESTful APIs, successfully delivering critical functionality that met client requirements and project deadlines.
- Collaborated with partners from Singapore to implement new features for the MyClass project using React.js and Git-based workflows, resulting in timely feature delivery and enhanced cross-team coordination.
- Participated in code reviews for multiple web projects using GitHub and team-based review practices, resulting in improved code quality, consistency, and reduced post-release bugs.
- Implemented responsive, mobile-first layouts for a client web application using React, which improved the mobile usability score by 30% as measured by user engagement metrics.

Technologies Used: *JavaScript, ReactJS, VueJS, HTML5, CSS, CSS3, ElementUI, Axios, Npm, Yarn, Webpack, Figma, Recoil.*

INTERNSHIP EXPERIENCE

Elca Group, Ho Chi Minh City, Vietnam ● 05/2019 – 08/2019
ELCA Group is a Swiss IT services and consulting company specializing in software development, IT consulting, and digital transformation.

Front-End Engineer, Intern
Contributed to the development of Secutix, a large-scale ticketing platform used by major sports clubs, live entertainment venues, and cultural institutions across Europe.
- Optimized key performance bottlenecks within the seat map editor with efficient algorithms and memory management techniques, directly contributing to the 94.4% reduction in processing time and enhancing user experience.
- Developed and refined critical features for the seat map and seat list editors by leveraging JavaScript, successfully translating complex project concepts into a stable and efficient production application.
- Engineered the seat map editor component utilizing Fabric.js for complex visual rendering, leading to a seamless user experience when manipulating large-scale venue maps.

Technologies Used: *JavaScript, Fabric.js.*

ACADEMIC PROJECTS

Maharishi International University (2025)
Timesheet Management: Timesheet Management System addresses problems by offering a single, easy-to-use platform where projects can be registered, clients and departments managed, timesheets recorded, and approvals handled quickly. This helps reduce errors, save time, and gives everyone a clear view of work progress. Utilized JavaScript, ReactJS, Redux, Java.

PERSONAL PROJECTS

Pompom English Speaking 2024: Created a web application where users can choose a random question and the application will record the user's answer and then provide the answer to them. The application will interact with the ChatGPT API to improve the answers, making them grammatically correct and sound more natural in conversation. Utilized JavaScript, ReactJS, ChakraUI, HTML5, CSS3.

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion 12/2027)
Maharishi International University, Fairfield, Iowa

Key Courses: Algorithms, Software Engineering, Web Application Development

Bachelor in Information Technology
Ho Chi Minh City University of Science, Ho Chi Minh City, Vietnam (10/2020)