

NGUYEN VAN HAU

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Cau Giay, Ha Noi, Viet Nam



SUMMARY

Senior Frontend Engineer with 5+ years of experience building highly optimized, scalable, and data-intensive web applications using ReactJS and NextJS. Experienced in modernizing legacy systems, designing front-end architectures that consume complex backend services, and independently delivering production-ready UI without dedicated UX/UI teams. Strong understanding of backend systems, RESTful APIs, MVC patterns, and relational data models (ERD). Demonstrated expertise in performance optimization, clean architecture, and developing enterprise-grade B2B platforms through [number] successful projects.

PROFESSIONAL EXPERIENCE

FPT Software

03/2023 - Now

- **Contract Insight** | 11/2025 - Now
 - An AI-powered contract management platform that performs automated legal compliance checks and provides detailed analysis reports with recommendations for better decision-making and risk mitigation. The system enables legal teams to reduce 80% of time spent on contract extraction and review.
 - Team size: 10 members.
 - Roles: Full-stack developer.
 - Contribution:
 - Engineered and delivered highly-optimized, data-driven frontend modules using React to seamlessly process and present large, dynamic contract datasets sourced from PostgreSQL and vector databases.
 - Designed scalable UI architecture to handle complex contract analysis results, compliance scoring, and version comparisons.
 - Independently translated wireframes and system diagrams into polished, production-ready UI without dedicated UX/UI designers.
 - Architected RESTful APIs (NestJS) following MVC principles to support complex relational data models (ERD-based contract schema).
 - Implemented streaming LLM responses and real-time updates for interactive contract assistant features.
 - Participated in code reviews and enforced clean architecture & testing practices (Jest, integration tests).
 - Tech stacks: NextJS/ReactJS, NestJS, PostgreSQL, Redis, LangChain, AWS Services, Docker.
- **Stratosphere IoT** | 10/2025 - 04/2026
 - An IoT device management platform that handles device pairing/registration, firmware updates, real-time video streaming (WebRTC), push notifications, smart home integrations (Alexa, Google Assistant), and subscription billing. The platform powers Mercurry Innovations smart home cameras and IoT devices, serving hundreds of thousands of end users.
 - Team size: 18 members.
 - Role: Backend Developer.
 - Contribution:
 - Consolidated synchronous Lambda-to-Lambda chains (Mersoft device services) into in-process service classes within Core Account Management, achieving 10–40x latency improvement on device-command paths by eliminating cold-start overhead.
 - Architected backend services for PTZ camera control features, including Home Position data management (API parsing, coordinate storage with conflict resolution via timestamp-based ordering, device ACK handling) and Tap Move event routing via MQTT.
 - Conducted legacy codebase inventory and deprecation for Oz Vision, Notion integrations, and P2P functions, identifying surface area for safe removal and reducing technical debt.
 - Participated in code reviews, wrote unit and integration tests (Jest, Mocha), and performed performance validation for migrated services.
 - Tech stack: Node.js, MongoDB, AWS Services, WebSocket, Docker, Jest.

- **MakeSim** | 11/2024 - 10/2025
 - A multi-faceted Edutech platform that seamlessly integrates a Learning Management System (LMS), a high-concurrency competition engine, and an interactive 3D simulation environment for STEM education. Bridge the gap between abstract coding and real-world physical simulations, enabling students to learn, practice, and compete in an immersive 3D environment.
 - Team size: 7 members.
 - Role: Full-stack Developer.
 - Contribution:
 - Advanced Architecture: Engineered a Multi-Role authentication logic, allowing seamless context switching (Student/Teacher/Admin) across browser tabs without session collision.
 - 3D & IDE Engineering: Integrated a real-time 3D simulation engine (Three.js/Cannon-es) with a block-based coding environment, handling complex canvas rendering and state synchronization.
 - Reliability & Security: Implemented global security layers including Rate Limiting (Throttler), JWT with RSA encryption, and automated audit logging for all sensitive administrative actions.
 - Tech stack: ReactJS/NextJS, NestJS, MongoDB, **Alepay API**, AWS Services, Docker.
- **IDP Project** | 03/2023 - 10/2024
 - A system that manages projects and necessary resources, such as members, VMs, VDIs, cloud services, and so on, helps centralize and simplify installation, allowing even non-tech members to use it.
 - Team size: 15 members.
 - Roles: Frontend developer.
 - Contribution:
 - Led the Frontend team to ensure on-time delivery, collaborating effectively with PM, QA, and Backend engineers across Agile sprints.
 - Designed and maintained reusable UI components using ReactJS, improving development efficiency and code consistency.
 - Built dynamic forms, permission-based modules, and data-driven tables to support complex enterprise workflows.
 - Conducted code reviews and enforced consistent coding standards to maintain code quality.
 - Tech stacks: ReactJS, NodeJS/NestJS, PostgreSQL, Kubernetes, Jenkins, Cloud services

SKILLS

- Programming languages: HTML, CSS, **JavaScript/TypeScript** (ES6+), Java, Python.
- Frontend Frameworks & Libraries:
 - **ReactJS/NextJS**, VueJS (NuxtJS) with Vite.
 - Tailwind CSS, SCSS/SASS, Radix UI, Material UI (MUI), Ant Design, Axios, Three.js.
- Backend & API
 - RESTful APIs with **Node.js (NestJS, ExpressJS)**.
 - Payment & Security: OAuth2, Keycloak SSO.
- AI & Automation: Langchain, Vector DB (RAG), LLM integration.
- Database & Caching: PostgreSQL, MongoDB (Mongoose), MySQL, Redis, Elasticsearch.
- Cloud & Infrastructure: AWS (Lambda, S3, DynamoDB, API Gateway), Serverless Framework, Event-driven Architecture.
- Testing & Quality: Jest, Mocha, SonarQube.
 - DevOps: Git, GitHub Actions, Docker, CI/CD pipelines.
- Vibe Coding or Agentic Coding:
 - GitHub Copilot, Cursor, ChatGPT.
- Soft skills:
 - Problem-solving, Creativity
 - Communication skills
 - Agile/Scrum methodologies.

EDUCATION

09/2019 - 05/2024

Posts and Telecommunications Institute of Technology

- Information Technology (Bachelor of Engineering)