



Doan Nguyen Lam

Software Engineer

Bachelor of Computer Science

Ton Duc Thang University (Class of 2018)

- (+84) 855 471 065
- doanguyenlam13072000@gmail.com
- www.linkedin.com/in/lam-doan-nguyen
- <https://github.com/doanguyenlam13072000>

About Me

Senior Full-stack Engineer with 4+ years of experience building and operating production-grade web applications for e-commerce, AI-assisted platforms, and enterprise systems.

Specialized in frontend-focused full-stack development using React, Vue, TypeScript, and Node.js, with strong ownership in API design, third-party integrations, and scalable backend workflows. Experienced collaborating with international teams across US, Israeli, and Japanese markets.

Relevant Skills & Specialization

Core Expertise

- Frontend-focused Full-stack Development (React, Vue, TypeScript, Node.js)
- Enterprise Web Systems, CMS & Third-party API Integrations (OIDC, Webhooks)
- Cloud-based & Asynchronous Workflows
- Long-term System Maintenance & Production Support

Frontend

- React.js, Vue.js (Vue 2/3), AngularJS, Nuxt.js, JQuery
- State Management: Pinia, Vuex, Zustand, TanStack Query (React/Vue Query)
- UI: Element Plus, Bootstrap Vue, Ant Design, Material UI, Tailwind CSS

Backend, Data & Cloud

- Node.js (Express), Spring Boot, Laravel, Strapi
- PostgreSQL, MySQL, MongoDB, Redis, T-SQL
- AWS (Lambda, Rekognition, S3, EC2, CloudFront, OpenSearch), Docker, VPS

Workflow & Collaboration

- Agile/Scrum and Waterfall Development Environments
- Git, Jira, CI/CD (GitHub Action), Production Debugging, Figma

Work Experience

MERCATUS - Full-stack Engineer

04/2025 - Present

Project: Stor.ai (Enterprise E-commerce Platform)

Description: Stor.ai is a large-scale enterprise e-commerce platform serving major retail chains across Israel, the US, and multiple international markets. The system provides an end-to-end e-commerce solution, from POS and inventory intake to ordering, promotions, and integrations with payment, delivery, and loyalty services.

Technologies: AngularJS, Next.js, Node.js (Express), Typescript, T-SQL

Responsibilities:

- Developed and maintained business-critical workflows, including order-related processes, delivery integrations, and operational CMS features for a large-scale e-commerce platform.
- Owned the implementation of a unified Google authentication flow (OIDC + People API) across web and Cordova-based Android/iOS applications.
- Implemented webhook-based integrations with third-party delivery providers to handle driver assignment and delivery events.
- Rebuilt and standardized transactional email workflows (order, payment, refund), ensuring consistent behavior across multiple clients.
- Maintained CMS modules, fixed production issues, and ensured system stability in a high-traffic environment.

PTA (Parent-Teacher Association) – Government Education System, Japan

Description: PTA is a nationwide system supporting communication and relationship management between schools and parent-teacher associations in Japan, developed for government-related education use.

Technologies: Laravel, MySQL, jQuery, Figma

Responsibilities:

- Contributed to the development of a nationwide management system for parents, teachers, students, and school staff.
- Built and maintained CMS features for managing announcements, documents, and media content used across schools.
- Designed and implemented role-based access control and bulk account provisioning via CSV for parents and guardians.
- Developed family relationship management features to handle parent-child and guardian associations.
- Integrated notification workflows, including email subscriptions and daily Slack alerts for system activities.
- Contributed to system design and long-term operation, including maintenance and coverage testing.

AldaBot - AI-powered Q&A & Document Intelligence Platform

Description: AldaBot is an AI-powered document Q&A assistant that improves information access by combining AWS OpenSearch with ChatGPT and LangChain for optimized retrieval and context-aware responses.

Technologies: Nuxt.js, Node.js (Express), MySQL, Redis, Docker, AWS OpenSearch, ChatGPT, LangChain

Responsibilities:

- Contributed to the design and implementation of an AI-assisted document Q&A platform, focusing on system architecture and CMS.
- Developed and maintained CMS features for managing documents, configurations, and chatbot behavior.
- Designed system workflows to support document-based question answering using ChatGPT, LangChain, and AWS OpenSearch.
- Integrated the chatbot with Facebook Fanpage messaging to enable real-time user interactions and automated responses.
- Integrated the chatbot into external websites via embeddable scripts, including a proof of concept using a custom Liferay portlet.
- Implemented unit tests and contributed to system stability through iterative improvements and ongoing maintenance.

PMS (Property Management System) - Smart Hotel & Facial Recognition Platform

Description: PMS is a smart hotel management system designed for contactless operations during the COVID-19 period, enabling unmanned hotel workflows through facial recognition-based check-in and service usage. The platform integrates with most major OTA providers, like Booking.com and Agoda, and supports area-based service management.

Technologies: Vue.js (Vue 2, Vuex, BootstrapVue), Spring Boot, Koa.js, AWS Rekognition, Swift UI Kit

Responsibilities:

- Developed and maintained a smart hotel management platform enabling contactless, unmanned operations for enterprise clients in Japan, covering reservations, check-in workflows, and on-site services.
- Played a key role in designing and implementing facial recognition-based check-in systems, including end-to-end UI and backend workflows for iPad devices and kiosk environments.
- Integrated OCR and facial recognition into the check-in flow, significantly reducing manual input and on-site staff workload.
- Implemented and optimized AWS Rekognition, improving facial recognition accuracy by approximately 90% compared to the previous solution.
- Optimized backend APIs for reservation and check-in flows, reducing response time by around 20% in critical user journeys.
- Contributed to complex third-party integrations, including OTA platforms, payment kiosks, room cleaning systems, and real-world deployments such as a facial recognition-based ticketing system for the Sado Gold Mine tourist site.

CYBERDINO — Freelance Full-stack Engineer

06/2024 – 11/2024

Nhat Quang Edu Game – AI-assisted Career Orientation Platform

Description: Nhat Quang Edu Game is an educational simulation platform that evaluates users through interactive challenges to provide career orientation, with AI-assisted tools for generating tasks and missions based on industry trends.

Technologies: React.js, TypeScript, React Query, Ant Design, Tailwind CSS, Strapi, PostgreSQL, Gemini API, OpenAI API

Responsibilities:

- Developed an educational simulation platform for career orientation, using structured assessments and AI-assisted recommendations to guide users toward suitable career paths.
- Designed and built interactive user interfaces with React and TypeScript, focusing on usability, responsiveness, and performance.
- Implemented AI-assisted logic and backend data workflows to support questionnaire evaluation and career recommendations.
- Integrated third-party services such as ReadyPlayer.me for 3D avatar customization, enhancing user engagement and personalization.

FREELANCER

06/2025 – 12/2025

HR Lotus – Human Resource Management System (Healthcare)

Description: HR Lotus is a hospital-focused HR management system supporting staff management, task assignment, payroll calculation, and workflow tracking.

Technologies: Vue 3, TypeScript, Vue Query, Element+, Tailwind CSS, Node.js (Express), PostgreSQL, Docker

Responsibilities:

- Developed a hospital-focused human resource management system supporting administrators, support workers, and clients.
- Implemented core HR workflows including staff management, task assignment, payroll calculation, and operational tracking.
- Designed and built backend services and APIs using Node.js and TypeScript.
- Delivered and deployed the system end-to-end using Docker in a VPS environment.