

NGUYEN THANH

DAT

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SENIOR SOFTWARE ENGINEER

Senior Software Engineer with 7+ years of experience designing and delivering scalable backend systems and enterprise web applications. Strong expertise in Node.js, Django (Python), microservices architecture, and cloud platforms (AWS, GCP, Azure). Experienced in building business-critical systems across fintech, e-commerce, logistics, loyalty, and HR payroll domains. Passionate about system optimization, clean architecture, and delivering high-reliability solutions with measurable business impact.



TECHNICAL EXPERTISE

Languages	JavaScript/TypeScript, Java, Python, PHP, SQL, HTML5, CSS3
Backend	Node.js, NestJS, KoaJS, Django (Python), Spring Boot, C#.NET, Laravel
Frontend	React.js, Next.js, React Native, Vue.js, Tailwind CSS, Ant Design
Cloud/DevOps	AWS, GCP, Azure, Docker, GitHub Actions, CI/CD, Kubernetes
Database	MySQL, PostgreSQL, MongoDB, Redis, Elasticsearch, RabbitMQ, Kafka



PROFESSIONAL EXPERIENCE

Senior Software Developer @ [Links International](#)

May 2025 – Present

- Architected a scalable event-driven microservices ecosystem using RabbitMQ, boosting core service efficiency by **50%** and ensuring high availability for critical modules (Payroll, T&A, Leave).
- Engineered high-performance data processing pipelines by optimizing complex MySQL queries and implementing Redis caching strategies, significantly reducing latency for large-scale employee datasets.
- Led the modernization of enterprise HR modules (Payroll, Overtime, Payslip), redesigning calculation engines to ensure **100% compliance** with tax and labor regulations.
- Developed seamless mobile-backend integrations for attendance verification scanners and WebView applications, enhancing user experience for thousands of employees.
- Orchestrated cloud deployment and monitoring on **Microsoft Azure**, maintaining **99% uptime** and robust system reliability.

Project: LinksOne (HR Platform) [Node.js, Django, Azure, Redis, RabbitMQ, MySQL]

Modernized legacy monolith to microservices. Optimized payroll engine for 99% accuracy.

Full-Stack Developer @ Liberty Technology VN

Feb 2023 – May 2025

- Architected and implemented a suite of core microservices including **Auth Service**, **Loyalty Service**, **Customer Service**, and **Payment Service** using NestJS and AWS, ensuring high scalability and security.
- Engineered an automated **Crawler Service** for multi-platform social media data (Facebook, Instagram, TikTok, YouTube) using GitHub Actions, significantly improving data collection efficiency.
- Developed a robust **Integration Service** to unify third-party APIs, payment gateways, and notification systems into a cohesive ecosystem.
- Optimized real-time communication and task processing using RabbitMQ, Redis, and WebSocket microservices for automotive and fintech platforms.
- Built high-performance web applications with Next.js and cross-platform mobile apps with React Native, delivering seamless user experiences.
- Managed cloud infrastructure on Ubuntu Server and AWS, implementing CI/CD pipelines and ensuring 100% services availability.

Project: Liberty Carz (Automotive Marketplace) [NestJS, React Native, AWS, RabbitMQ]

Built full-stack e-commerce platform with real-time inventory, notifications, and payment gateways.

Project: Liberty Exchange (Fintech) [NestJS, WebSocket, MongoDB]

Developed money transfer API with real-time currency rate updates.

Project: Rubber retex cycle (ThuanLoiRubber) [NextJs, MongoDB, ReactJS, AWS]

Built a rubber retex cycle system for ThuanLoiRubber company.

Full-Stack Developer @ U&I Logistics Corporation

May 2021 – Feb 2023

- Developed responsive web applications using ReactJS, Ant Design, Material UI, Redux, and Tailwind CSS.
- Built cross-platform mobile applications for Android and iOS using React Native.
- Designed and implemented scalable backend systems using NodeJS, KoaJS and Socket.io for real-time communication.
- Established CI/CD pipelines on Windows Server using GitHub Actions, ensuring seamless deployment automation.
- Handled API development and integration using C# with MongoDB, optimizing database performance.
- Set up and led Scrum teams using Jira for agile project management.

Project: U&I TMS (Transport Management) [ReactJS, React Native, Node.js]

Developed container management system web/mobile apps for drivers and employees.

Project: U&I CRM (Customer Relationship Management) [C#.NET, ReactJS, MongoDB]

Built CRM system for logistics company to manage customer interactions and sales pipelines.

Project: U&I Chat App [Node.js, TauriJS, Socket.io]

Developed secure internal desktop chat application for enterprise communication.

FullStack Developer @ Nest Tech VN

May 2020 – May 2021

- Developed a RESTful API for scalable web services using Node.js and Koa.js.
- Implemented Redis for caching and session management, optimizing API response times.
- Designed and documented API endpoints with Swagger for seamless frontend integration.
- Built an administrator management dashboard for an e-commerce platform using Vue.js.
- Integrated RESTful APIs for real-time data updates, enabling features such as user role management and analytics.

Project: OddJob (Freelancer Platform) [Node.js, Vue.js, Elasticsearch, Docker]

Created job matching platform with real-time bidding and chat features.

Project: Teach Live (E-Learning) [Node.js, jQuery, MongoDB]

Developed server-side logic for online learning platform with payment integration.

Project: Kalpha (P2P Learning) [Node.js (SSR), ReactJS]

Built website for peer-to-peer learning platform focused on user matching and scheduling.

Backend Developer @ TTS (Thị Trường Sĩ)

May 2019 – May 2020

- Developed a RESTful API for an e-commerce platform using the PHP Laravel framework.
- Implemented a split-database architecture utilizing MongoDB for unstructured data and MySQL for relational data.
- Integrated Elasticsearch to provide advanced search capabilities for product listings.
- Utilized RabbitMQ for asynchronous messaging and queue management to improve system performance.
- Connected to an external order service to streamline transaction processing.

Project: thitruongsi.com (B2B E-commerce) [Laravel, MongoDB, Elasticsearch]

Developed wholesale marketplace connecting buyers and suppliers with advanced search.



SIDE PROJECTS

Vitadairy Loyalty System | *Spring Boot, Kafka, Kubernetes, GCP*

Implemented microservices-based loyalty program handling high-volume transactions.

Poslah Singapore | *NextJS, React, React Native, MongoDB, AWS, Redis*

Built a mobile and website application for Poslah Singapore, a food delivery service by POS system.

Snassy Vending Machine | *Nextjs, MySQL, PostgreSQL, Redis, RabbitMQ*

Vending machine with Linux or Windows OS.



EDUCATION

Thu Dau Mot University | *Software Engineering*

2016 – 2020

GPA: 8.03/10



HONORS & ACHIEVEMENTS

- ★ Certificate of Excellence for performance in Q1 2023.
- ★ First Prize – Creative Startup Contest, Thu Dau Mot University (2018).
- ★ Second Prize – Creative Startup Contest, Binh Duong Province (2018).
- ★ Top 5 Leaders – National Students Program (2017).