

# NGUYEN VAN TUE

## FULL-STACK ENGINEER

+84 3444 65654 · nvtuehcmus@gmail.com, Ho Chi Minh City - Viet Nam

### SUMMARY

- 5+ years of experience in software development, specializing in web application development.
- Good understanding of server-side technologies and system architectures.
- Design many systems using Restful APIs and infrastructure with complex business logic.
- Good written and verbal communication skills.
- Have experience teaching for certificates in automation operations
- Excellent teamwork skills: communication, presentation, attitude, and commitment.

### TECHNICAL SKILLS

#### Programming Languages:

- **Advance:** Javascript, Typescript.
- **Intermediate:** Python

#### Framework:

- **Advance:** NodeJS, ExpressJS, ReactJS, NextJS
- **Intermediate:** HonoJS
- **Beginner:** GraphQL, FastAPI

#### Database:

- **Advance:** MongoDB, MySQL
- **Intermediate:** Postgresql
- **Beginner:** TinyBird

#### Server:

- **Advance:** AWS, Cloudflare, On-premise
- **Intermediate:** Nginx
- **Beginner:** Teraform, Ansible

### EDUCATION

#### The University Of Science

2017-2020

- Degree of Information Technology

### PROFESSIONAL EXPERIENCE

#### Hiptech Solutions

Oct/2023 - Jul/2025

- **AI chatbot platform**
  - **Customer:** Magicblocks - Australia
  - **Teamsize:** 8
  - **Role: Team Leader** Lead a 3-member team (2 seniors, 1 junior)
  - **Technology:** NextJS, ReactJS, NodeJS, MySQL, Cloudflare, Prisma, Zod, TinyBird, PlaneScale, Stripe, MongoDB, OpenAI, RAG
  - **Description:**
    - Developed a customizable AI chatbot platform with multi-channel integration (website, email, SMS, social media).
    - Enabled RAG-based responses using OpenAI, Gemini, Grok, etc., with model switching per client needs.
    - Supported agent customization (tone, form handling, data access, ROI tracking) and CRM/lead management integration.

- **Responsibility:**
  - Collaborated with clients to design project architecture, including technical stack, services, and codebase decisions; adopted a serverless approach to minimize DevOps overhead and reduce infrastructure costs.
  - Evaluated and benchmarked hosting platforms (AWS Amplify, Cloudflare Pages, Vercel) to ensure optimal speed and performance.
  - Built and maintained CI/CD workflows using GitHub Actions; implemented environment-specific security measures and access policies for dev and staging environments.
  - conducted code reviews to eliminate redundant logic, improve performance, enforce code quality, and established a Git flow strategy.
  - Developed both frontend and backend core services; implemented key modules such as billing and third-party integrations.
- **Elgato Stream Deck Plugin** (Hiptech Solutions)
  - **Customer:** Elgato - Germany
  - **Teamsize:** 3
  - **Role: Team Leader** Lead a small team (1 senior, 1 junior)
  - **Technology:** NodeJS, VBA, AppleScript, Python
  - **Description:**
    - Developed cross-platform plugins for Elgato Stream Deck to control desktop applications on Windows and macOS via API, AppleScript, or VBA.
    - Functions include tasks like launching PowerPoint, navigating slides, time tracking, etc.
    - Plugins are designed for publication on the official Elgato Plugin Store and will be open-sourced as reference examples for future plugin developers.
  - **Responsibility:**
    - Ensuring clean code and well-documented implementations following EU coding standards.
    - Researched and implemented workarounds for unsupported application functions, using scripting and system-level APIs where needed.
    - Conducted feature presentations with clients, including discussions on limitations and unsupported behaviors.
    - Set up and enforced unit testing, performed code reviews to maintain clarity, consistency, and high-quality standards.

---

## CodeStringers

May/2022 - Oct/2023

- **Smart Salmon Farming System**
  - **Customer:** Aquabyte - Norway
  - **Teamsize:** 6
  - **Role: Fullstack - Developer**
  - **Technology:** NodeJS, ReactJS, Redux, Typescript, Grafana, Prometheus, PostgreSQL
  - **Description:**
    - Built a management system for salmon farming, enabling users to monitor and control fish tanks remotely.
    - Features include automated feeding, lighting control, live camera access, and disease/weight/quantity detection via smart reporting.
    - Provided exportable reports and analytics to track fish health, performance, and operations at scale.
  - **Responsibility:**
    - Developed both frontend and backend features, ensuring a clean, efficient, and maintainable codebase through thorough code reviews.
    - Wrote comprehensive unit tests to maintain code reliability and coverage.
    - Collaborated closely with the Norwegian team to implement modules related to hardware integration, including device and camera control.

- **Healthcare Application**

- **Customer:** Bionex - USA
- **Teamsize:** 2
- **Role:** Fullstack - Developer
- **Technology:** ReactJS, Python, Websocket, Vite, Typescript, Lerna, EC2, S3, Route53, CloudFront, Code build, PostgreSQL, SQLite
- **Description:**
  - Developed a system that integrates with medical machines to support patient rehabilitation, track health metrics, and generate personalized training plans.
  - Collected data from force sensors, processed it via Raspberry Pi, and visualized results on a ReactJS web application.
  - Generated detailed reports on training metrics; ensured full offline functionality to support use in isolated environments (e.g., military).
  - Complied with medical data security standards to safeguard patient information.
- **Responsibility:**
  - Set up build and deployment flows using AWS CodeBuild and manual deployment scripts for production environments.
  - Developed key frontend features, and led migration to TypeScript, improving maintainability and type safety.
  - Refactored codebase and optimized database structure and business logic to reduce response delay to under 1 second.
  - Supported backend development using Python (FastAPI) for implementing new features and API enhancements.

---

**Ipaymy****Mar/2021 - May/2022**

- **Logs System Management ( Ipaymy )**

- **Customer:** Ipaymy - Singapore
- **Teamsize:** 2
- **Role:** Fullstack - Developer
- **Technology:** NodeJS, ReactJS, SocketIO, ExpressJS, Typescript, AVA test, ElectronJS, EC2, S3, Route53, CloudFront, Athena, MongoDB
- **Description:**
  - Built a platform for storing and querying logs across distributed microservices with unlimited retention and real-time log streaming.
  - Implemented alerting mechanisms for critical logs and integrated with Shortcut (project management) to auto-create bug tickets and assign them to relevant team members.
  - Ensured data security and access control through robust safety measures and permission policies.
- **Responsibility:**
  - Started from scratch based on requirements provided by the Tech Lead; designed system architecture aligned with project goals.
  - Implemented both frontend and backend, ensuring smooth integration and performance.
  - Enforced data security and access control to protect sensitive log information.
  - Solved challenges related to large-scale data storage, optimizing cost while maintaining efficient and distributed data access.

---

**Vnpro (Lecturer) - Partime****Nov/2019 - Jul/2022**

- **Network Certification Training Center**

- **Customer:** Vnpro - Viet Nam

- **Teamsize:** 1

- **Role:** Lecturer

- **Technology:** Python, Networking, Operation, Linux, Teraform, Ansible

- **Description:**

- Delivered training programs for industry-standard certifications such as CCNA, CCNP, ENCOR, and DevNet.
    - Focused on modernizing traditional IT operations roles through automation practices, combining core networking knowledge with scripting and tooling.
    - Integrated automation modules using Python, and tools like Ansible and Postman to teach real-world infrastructure automation workflows.

- **Responsibility:**

- Designed flexible teaching approaches tailored to each course and learner's needs (CCNA, CCNP, ENCOR, DevNet).
    - Provided hands-on training for interns and assisted lead instructors in delivering labs and exercises focused on network automation.
    - Consulted students and businesses on optimal database architectures and software solutions for practical use cases.
    - Supported curriculum delivery with real-world tools such as Python, Ansible, and Postman to reinforce automation concepts.