



# Pham Nguyen Thanh Nghiem

**Role: Fullstack Engineer**

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## PROFILE SUMMARY

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Become a Fullstack Engineer which is hands on in all stages of the programming cycle, from planning and design to testing and deployment. Something that I love about programming is the opportunity to work with people from a wide range of disciplines. I love challenges and learning new so I can adapt well to the needs and flexible changes of the market.

## EDUCATION

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International University - HCMC

Oct 2013 - Nov 2019

Major: Electrical Engineering

## CERTIFICATIONS

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<a href="#">AWS Certified Developer - Associate</a>	12/2024 - 12/2027
<a href="#">AWS Certified Solution Architect - Associate</a>	12/2025 - 12/2028
<a href="#">HackerRank - Problem Solving Algorithms (Golden Level)</a>	2023 - now
<a href="#">HackerRank - JavaScript (Intermediate)</a>	2023 - now
Udemy - 50 Projects In 50 Days - HTML, CSS & JavaScript	2021
Udemy - JavaScript/React 2020-2021	2022
Transcosmos - The Highest Points From Programing Test - 2023	2023
IELTS 6.5	Oct - 2019

## TECH STACK

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People Language:	English (Fairly Good)
Machine Language:	C, JavaScript, TypeScript, Python, Flutter, HTML, CSS, Shell
Runtime&Library:	NodeJS, ReactJS, NextJS, ExpressJS, VueJS, Bootstrap
Infrastructure:	AWS, Google Cloud Platform, Docker, Firebase

# EXPERIENCES

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## Working at Xolv Technology Solutions, Inc

Jan 2025 - Now

*Tech required: ReactJS, NextJS, NestJS, ExpressJS, ViteJS, NodeJS, Postgres, Docker, AWS, GCP, Azure AD, Flutter, UnitTest (Jest, Playwright), CI/CD Gitlab (Review, Push, Merge Process, run Pipeline), Jira (Task, Confluence)*

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### 1. FAS – Funder Agnostic Solution

*Project Lead - Focus Both Frontend and Backend / 4 members*

A client intake and management platform designed to support rapid onboarding, scalability, and integration with external systems.

#### Responsibilities

- Led end-to-end development from **greenfield to production**, including system architecture, delivery planning, and task breakdown.
- Designed an **event-driven backend architecture** using NestJS, GraphQL, Redis, AWS Lambda, SQS, SNS, Step Function, EventBridge, ECS/Fargate, RDS and DynamoDB.
- Implemented **secure authentication and authorization** with **Azure AD SSO**, **AWS Cognito**, and RBAC.
- Built production observability using **CloudWatch**, **Datadog**, **Sentry**, structured logging (Pino), and alerting.
- Worked closely with clients to continuously refine requirements and prioritize business-critical features.
- Integrated with **third party**: Qualtrics (Survey Service US), DocuSign (E-Sign), Scheduling (Salesforce)...

#### Achievements

- Delivered a **production-ready MVP in 3 months**, enabling the product to **generate revenue immediately after launch**.
  - Took full technical ownership and successfully **led a 4-engineer team** under tight deadlines and evolving requirements.
  - Designed a **cost-optimized AWS architecture**, minimizing infrastructure costs while supporting scalable workloads.
  - Improved system resilience by implementing **circuit breaker and retry patterns** for external integrations.
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### 2. myBrightlink Web App

*Fullstack Engineer - Focus Frontend / 4 members*

Healthcare-focused web application for scheduling, appointments, session note, treatment plan, billing, and client management

#### Responsibilities

- Developed core modules using **ReactJS**, **Zustand**, **TypeScript**, **AWS S3**, **SQS (with DLQ)**, **RDS**.
- Implemented asynchronous workflows using **SQS and EventBridge** for fault tolerance and scalability.
- Built production observability using **Datadog**, **Sentry**, structured logging (Pino), and alerting.
- Ensured code quality and reliability through **unit tests**, **Playwright e2e tests**, and **SonarQube**.
- Collaborated with QA and product teams to stabilize releases.
- Implemented **secure authentication and authorization** with **Azure AD B2C**, **OAuth 2**.

## Achievements

- Successfully delivered multiple high-impact features in a **regulated healthcare environment**.
  - Improved system reliability by introducing **Dead Letter Queues (DLQ)** and monitoring for async workflows.
  - Contributed to maintaining **HIPAA-compliant authentication and data handling**.
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## 3. Admin Center

*Fullstack Engineer - Focus Frontend 60% and Backend 40% / 2 members*

Internal admin portal with role-based access and enterprise authentication.

### Responsibilities

- Integrated **Azure AD B2C** authentication with **MSAL**, implementing **role-based access control** and **session management** with inactivity logout.
- Built user management system with CRUD operations, form validation, and error handling workflows.
- Containerized and deployed Next.js application to **Kubernetes** using **Docker multi-stage** builds and **GitLab CI/CD** with Helm charts.
- Implemented type-safe API integration using **OpenAPI-generated TypeScript** clients with Axios interceptors and **SWR caching**.
- Architected frontend using **Next.js 15 App Router**, **Zustand** state management, and custom React hooks.
- Developed responsive admin dashboard with **Radix UI**, internationalization (i18next), and protected routing.

### Achievements

- Delivered a secure internal admin system with **fine-grained access control**.
  - Reduced authentication-related issues by standardizing **Azure AD B2C integration**.
  - Improved deployment consistency through containerization.
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## 4. Wabistro

*Fullstack - Focus Frontend/ Mobile Engineer*

AI-powered restaurant discovery and nutrition analysis platform.

### Responsibilities

- Built cross-platform mobile features using **Flutter, Ionic React, and Capacitor**.
- Integrated **Google Generative AI and OpenAI APIs** for menu detection and nutrition analysis.
- Developed serverless backend features using **Firebase Auth, Cloud Functions, and Hosting**.

### Achievements

- Successfully integrated AI-driven features into a **consumer-facing mobile product**.
- Delivered cross-platform functionality with a **single codebase for iOS and Android**.
- Reduced backend operational overhead using **serverless Firebase architecture**.

*Tech required: ReactStrap, ReactJS with JavaScript, TypeScript, NodeJS, Postgres, Docker, AWS(Route 53, S3, EC2, CloudFront...), GCP (Cloud Function, Log Monitoring...), Firebase Firestore, UnitTest (Jest), CI/CD Bitbucket (Review, Push, Merge Process, run Pipeline), Clickup (Task, Confluence)*

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## **1. t-passport – SSO Web Application**

*Fullstack - Focus Backend / 5 members*

Single Sign-On platform supporting secure sign-in/sign-out workflows.

### **Responsibilities**

- Developed frontend features using ReactJS and TypeScript.
- Integrated authentication flows **Microsoft ADFS, OAuth SSO** and ensured secure session handling.
- Maintained code quality with unit tests, **Cypress e2e tests, and SonarQube**.
- Collaborated closely with team members to stabilize releases.
- Deploy by AWS Amplify

### **Achievements**

- Delivered a **stable SSO** solution used across multiple internal systems.
  - Release a **Passwordless authentication feature** that allows users to log in by **scanning a QR code** via a mobile app
  - Build a dashboard which allow user pick a favorite **SSO Sign-in by Drag-Drop label handling**
  - Improved authentication reliability through **consistent testing and quality checks**.
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## **2. LM – Log Management Service**

*Backend Engineer - Focus Backend/ 2 members*

Centralized log processing and storage service.

### **Responsibilities**

- Designed serverless log ingestion pipelines using **AWS S3, Lambda, Trusted Advisor, Security Hub, EventBridge, KMS and CloudFormation**.
- **Processed and transformed log** data using JavaScript and Python.
- **Automated infrastructure** provisioning via IaC.

### **Achievements**

- Built a **scalable, serverless logging solution** with minimal operational overhead.
- Improved **log traceability and system observability** for downstream services.

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### 3. **t-intelligate – AI Model Integration Platform**

*Fullstack - Focus Frontend 40% and Backend 60% / 4 members*

AI-powered application integrating multiple LLM providers.

#### **Responsibilities**

- Integrated **ChatGPT, Azure OpenAI, Gemini, and AWS-based AI services.**
- Built frontend features using ReactJS, ViteJS for AI interaction workflows.
- Worked on secure API integration and prompt handling.
- Handle **User and Group User permission** by Cognito User Pool

#### **Achievements**

- Delivered a standalone internal system that enables users to **leverage AI models for document processing and data search** within corporate security and policy constraints.

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### 4. **ATM – Access Token Management**

*Fullstack - Focus Frontend/ PIC*

Built secure token lifecycle management features.

#### **Responsibilities**

- Owned end-to-end delivery, from requirements to deployment.
- Using VueJS, AWS Cognito to management token as hub before login to other app

#### **Achievements**

- Delivered a standalone internal system with full ownership and minimal supervision.

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### 5. **EM – Email Management System**

*Fullstack - Focus Both Frontend and Backend / PIC*

Built a service to send/receive and manage template Email for Corporation

#### **Responsibilities**

- Designed event-driven email processing using S3, SQS, SNS, Lambda, DynamoDB.
- Integrated cloud storage Firebase Firestore, GCP and monitoring Dashboard.
- Apply ReactJS with NextJS for Frontend
- Adapt a bulk Email sending by using S3 bucket and SQS
- Using Source Engine from GCP to handle a large of Request (Template, Contact...)

#### **Achievements**

- Improved email processing reliability using asynchronous messaging

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## 6. WD / TM – Wording & Ticket Management Systems

*Fullstack - Focus Both Frontend and Backend / PIC*

Built a service to help translate and manage tickets and create ticket from any end user in eco-system of Corporation

### Responsibilities

- Developed frontend features using ReactJS and TypeScript.
- Integrated productivity tools with ClickUp Webhook to sync ticket status and comment realtime.
- Handle Bitbucket Pipeline and deploy to Firebase.

### Achievements

- Reduced manual operational workload through internal tooling automation.
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## Worked at VietCredit

**Dec 2021 - Apr 2023**

*Tech required: ReactJS, TypeScript, ViteJS, NodeJS, Postgres, Docker, AWS, GCP, Azure AD, Flutter, UnitTest (Jest, Playwright), CI/CD Gitlab (Review, Push, Merge Process, run Pipeline), Jira (Task, Confluence)*

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## 1. FASMO (Fast Money) – MoMo e-Wallet Integration

*Backend / PIC*

Mobile lending platform integrated with MoMo e-wallet.

### Responsibilities

- Implemented **backend business logic using NodeJS and MS SQL**.
- Processed user data and enforced lending rules.
- Collaborated in Agile ceremonies and daily reporting.

### Achievements

- Contributed to a **high-traffic** financial product with real-money transactions.
  - Improved **error handling and data validation** in loan workflows.
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## 2. Financial Internal Management System

*Backend / PIC*

Internal system for financial operations, reporting, and payroll.

### Responsibilities

- Developed **backend APIs and frontend features** using ReactJS.
- Refactored existing logic to improve performance and maintainability.

## Achievements

- Increased operational efficiency for internal finance teams.
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### 3. Repayment Fee System

*Backend / PIC*

Web application for managing loan repayment schedules and fees.

#### Responsibilities

- Built **APIs** to support repayment calculation and tracking.
- Ensured **data accuracy** across the loan lifecycle.

#### Achievements

- Improved correctness and reliability of repayment-related calculations
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## Worked at Shinhan DS Vietnam

**Jul 2018 - Dec 2021**

*Tech required: REST, gRPC, Kafka, SQS, RabbitMQ, Saga Pattern, Oracle SQL, JavaScript*

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### 1. Aither System - Core banking

*Project Lead / 4 members*

Worked on Core Banking systems supporting customer, account, tax, and fee management.

#### Responsibilities

- Developed and maintained banking microservices.
- Designed database schemas and UI screens (**Oracle SQL, C , Java**)
- Refactored business logic to comply with Vietnam State Bank regulations.
- Created documentation, test cases, and deployment middleware.
- Adapt directly banking business and collaboration with other business department.

#### Achievements

- Built a **High-Priority Customer Management** system based on **Top Club scoring** from promotional and loyalty programs, enabling banks to identify and prioritize VIP / high-value customers.
- **Implemented accurate customer-sales assignment logic**, ensuring each customer was mapped to the correct Relationship Manager (RM), preventing customer conflicts and sales overlap across different teams.
- **Developed an integrated customer information platform**, consolidating data across multiple banking systems to provide a unified customer profile.
- **Implemented an Exchange Rate calculation** system supporting:
  - Foreign currency exchange for individual customers.
  - Salary payments for foreign companies and international payroll use cases.
- Contributed to **mission-critical core banking systems** with strict regulatory, security, and data integrity requirements.
- Improved **maintainability and stability of legacy systems** through systematic refactoring, documentation, and process standardization.