

Kha (Kane) Nguyen

Ho Chi Minh City, Viet Nam | 0915421830 | nguyenvuankha5371@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

OBJECTIVE

Fullstack Software Engineer with expertise in building end-to-end web applications using **React.js/Next.js** for high-performance frontends and **Node.js/NestJS** for scalable backends. Proven track record in designing **Microservices architectures**, integrating real-time communication (Sendbird/Firebase), and deploying on **AWS Cloud (EC2, Lambda, SQS)**. Skilled in optimizing the entire development lifecycle, from responsive UI/UX to server-side performance tuning and DevOps workflows.

SKILLS

- **Programming Languages:** JavaScript, TypeScript, C#, Java, GoLang
- **Frontend:** React.js, Next.js, Vite
- **Backend:** Node.js, ASP.NET Core, NestJS
- **Databases:** PostgreSQL, MySQL, MongoDB, MSSQL
- **DevOps:** AWS EC2, RDS, S3, Docker, RabbitMQ, gRPC
- **VCS:** Git, GitHub, GitLab

EDUCATION

FPT University

MAJOR, SOFTWARE ENGINEERING

Sep 2021 - May 2025

- **GPA:** 3.21/4

WORK EXPERIENCE

Cigro

FRESHER SOFTWARE ENGINEER

Aug 2025 - Oct 2025

- Optimized system performance and reliability by developing backend services with NestJS and TypeORM, resulting in improved database query efficiency through Prisma and PostgreSQL.
- Integrated Sendbird and Firebase for chat, calling, and notifications, which enhanced user communication features
- Implemented IAP webhooks and BullMQ for background tasks like auto message deletion.
- Enhanced system stability by identifying bottlenecks through load testing with Autocannon and K6, visualizing performance metrics in Grafana to ensure 99.9% uptime during high traffic.

FSoft

INTERNSHIP SOFTWARE ENGINEER

Dec 2023 - Apr 2024

- Designed and developed responsive user interfaces using React, enhancing user experience and engagement
- Boosted application performance by refactoring the frontend codebase and implementing React Query for data management, reducing unnecessary API requests and improving user engagement.

Axpara

FRESHER SOFTWARE ENGINEER

Dec 2022 - Nov 2023

- Developed and maintained web applications using React.js, enhancing user experience and application performance
- Collaborated with cross-functional teams, including designers, product managers, and developers, using GitLab to create high-quality products, resulting in improved project efficiency and product quality

INTERNSHIP SOFTWARE ENGINEER

Sep 2022 - Nov 2022

- Participated in code reviews and provided constructive feedback to other developers, enhancing code quality and team collaboration

PROJECTS

EveryTalk

Sep 2025 - Oct 2025

- A real-time communication system, enabling chat and call features.
- Integrated Sendbird SDK to implement 1-1 chat and voice/video call features.
- Built NestJS APIs to handle user sessions, chat rooms, and notifications.
- Deployed and maintained the system using Docker on AWS EC2, ensuring high availability and scalability.

Oubong

Aug 2025 - Sep 2025

- A trekking platform that allows users to join clans, manage members, earn and distribute LuckyPeak coins, and purchase coins or subscriptions via in-app purchases.
- Integrated in-app purchase (IAP) for coin and subscription payments.
- Increased system scalability and reliability by migrating from EventEmitter2 to a serverless architecture (AWS SQS & Lambda), reducing processing latency for in-app purchase webhooks.

A system for building maintenance and crack monitoring

Dec 2024 - Apr 2025

- A system that supports building management in monitoring maintenance tasks, tracking crack reports, assigning work, and managing repair costs, integrated with an AI model to detect building cracks from images.

- Successfully led a team of developers to deliver a complex building maintenance system on schedule, managing the full SDLC from requirement gathering (SRS) to **Microservices architecture design**.
- Integrated **AI YOLOv11** for automated crack detection, **reducing manual inspection time** for residents and staff.
- **Designed and implemented microservices architecture** using NestJS, with AWS Lambda calling **Ultralytics YOLOv11 API for image crack detection**.
- Coordinated development tasks among team members **to ensure project milestones and deadlines were met**.

FPT Fresher Academy Training Management

Dec 2023 - Apr 2024

FPT

- A web application for managing training programs, courses, and progress tracking for new hires at **FPT Academy**.
- Implemented **JWT authentication** to secure user access and **role-based permissions**.
- Refactored and reused **UI components** to improve code maintainability and consistency.
- Structured project **folders** and modules for **scalability and easier collaboration**.
- Utilized **React Query** for optimized data fetching and state synchronization.
- Developed search, filter, and pagination features to **enhance user experience**.

Claritas

Feb 2023 - Nov 2023

Axpara

- A platform that enables users to **upload building images, identify cracks**, and manage inspection data efficiently.
- Implemented **user authentication and account management** with secure API integration.
- Developed the **image upload and annotation interface**, allowing users to mark and verify crack areas with precise element positioning.
- Collaborated with team members to ensure **responsive UI** and smooth user interaction across devices.

HONORS & AWARDS

- Honorable Student - Fall 2024:Sep 2024 - Dec 2024
- Honorable Student - Summer 2024:May 2024 - Aug 2024
- Honorable Student - Summer 2022:Apr 2022 - Sep 2022
- Third-place of Science Technology in Lam Dong province:Sum 2020

CERTIFICATIONS

- User Experience Research and Design:Sep 2024
<https://coursera.org/share/6d0c6bd149e94707df0407a5efbb75d5>
- Project Management Principles and Practices:May 2024
<https://coursera.org/share/0569f6dd8e5edcee9d4ee627e411866e>
- Software Development Lifecycle:June 2023
<https://coursera.org/share/2bcebdac591eeb044059ce7e7334477d>
- Web Design for Everybody: Basics of Web Development & Coding:Feb 2023
<https://coursera.org/share/5134b435a3c299a729ae377175ae38b8>