

# Kha (Kane) Nguyen

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## OBJECTIVE

Aspiring Backend Engineer with experience in developing backend services using Node.js and NestJS, and integrating technologies like Sendbird and Firebase. Skilled in AWS EC2, RDS, and DevOps workflows, with a focus on scalable web applications. Eager to leverage backend development expertise to contribute to innovative projects and drive technical excellence.

## 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

Sep 2021 - May 2025

MAJOR, SOFTWARE ENGINEERING

- **GPA:** 3.21/4

## WORK EXPERIENCE

### Cigro

Aug 2025 - Oct 2025

FRESHER SOFTWARE ENGINEER

- Developed backend services using NestJS, TypeORM, and Prisma with PostgreSQL, enhancing system performance and reliability
- 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.
- Gained proficiency in load testing methodologies using Autocannon and K6 with Grafana visualization, which improved system testing accuracy and performance analysis

### FSoft

Dec 2023 - Apr 2024

INTERNSHIP SOFTWARE ENGINEER

- Designed and developed responsive user interfaces using React, enhancing user experience and engagement
- Reorganized and optimized the frontend codebase, used React Query to manage API data, improving performance and reducing unnecessary requests.

### Axpara

Dec 2022 - Nov 2023

FRESHER SOFTWARE ENGINEER

- 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

### Axpara

Sep 2022 - Nov 2022

INTERNSHIP SOFTWARE ENGINEER

- 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 for building management, enabling chat and call features between staff and residents.
- 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.
- Maintained and extended an existing 6-month-old codebase.
- Integrated in-app purchase (IAP) for coin and subscription payments.
- Migrated the old webhook structure from EventEmitter2 to a serverless architecture using AWS SQS and Lambda, improving scalability and reliability.

### 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.

- Acted as team leader, gathered requirements from mentor, and created project documentation including SRS, use case diagrams, system design, and system architecture.
- 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.
- Implemented API in building the management dashboard for residents and staff.

## **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**

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- **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**

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- **User Experience Research and Design:** Sep 2024
- **Project Management Principles and Practices:** May 2024
- **Software Development Lifecycle:** June 2023
- **Web Design for Everybody: Basics of Web Development & Coding:** Feb 2023