

# HOAN HA

 [hoanhax@gmail.com](mailto:hoanhax@gmail.com)

 [portfolio](#)

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 +84988875454

 Da Nang, Vietnam

## SENIOR SOFTWARE ENGINEER

### SUMMARY

Experienced Software Architect with **15+ years** in building scalable **SaaS solutions** for **startups**. Expert in **microservices**, cloud infrastructure (**AWS**), and backend systems. Proven track record in leading teams, optimizing cloud services, and delivering high-performance products. Skilled in **applying AI** to automate development workflows, enhance speech-based applications, and improve software quality through intelligent process optimization.

### EXPERIENCE

**ELSA, Corp**

Senior Software Engineer

Feb 2025 - Aug 2025

- Managed microservices for payment, leaderboard, and other critical services, ensuring high availability and scalability.
- Optimized API request latency, achieving 50% faster response time and improving user
- Pioneered **AI-driven development** across the entire lifecycle—from architecture design, coding, testing to **MCP** integration—achieving **80%** code generation by AI and elevating output quality and efficiency.

*Technologies*  
Python, FastAPI, DynamoDB, Langchain, Redis, PostgreSQL, Apple/Google InApp Purchase

**FREELANCER**

Software Architecture & Backend Developer

Feb 2022 - Feb-2025

- Developed a Shorts Video **SaaS** platform for **Flagship startup** designed to integrate with Grameenphone, the leading telecommunications provider in Bangladesh.
- Established a standardized **Node.js** project template supporting **REST** and **GraphQL**, utilizing **GenAI** to automate code generation, boosting productivity by **30%**.
- Created an **AI-driven** trading platform capable of processing **millions** of historical records for backtesting and generating millions of test orders. Enabled real-time live trading with **MetaTrader** integration and provided a **React**-based app for visualizing results and performance.
- Achieved **100%** job success rate and consistently received **5-star reviews**.

*Technologies*  
Microservices, NodeJS, Python, Reactjs, FFMPEG, GraphQL, WebSocket, Stripe, Docker, Redis, OpenSearch, RabbitMQ, AWS (Lambda, S3, DocumentDB, MediaConverter, CloudFront, EKS)

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## AKEPTUS

Mar 2019 - Jan-2022

### Software Architecture & Backend Developer

- **Led a team of 10** members in designing and building a robust SaaS platform for **Akeptus startup** over a period of **2 years**, leveraging microservices architecture and AWS cloud
- Akeptus was chosen for the **Amazon Startup Showcase**, showcasing our innovative solutions with AWS technologies, and selected for the **Google Startups Accelerator: Black Founders** program.
- Built a job marketplace with an **in-app wallet** and **Stripe** integration, enabling secure payments and withdrawals, along with **real-time** communication for seamless user interaction.
- Integrated with a third-party provider using OAuth to fetch data utilized by AI for controlling smart devices.
- Optimized backend testing with **Jest, Mocha, Supertest, and K6**, enhancing system reliability and performance.

### Technologies

Microservices, NodeJS, MongoDB, Reactjs, GraphQL, REST API, WebSocket, Docker, Stripe, Redis, Oauth, AWS (Lambda, SNS, SQS, SES, EKS, CloudFront, S3)

## DSOFT

Jun 2018 - Dec 2018

### Technical Lead

- Designed and implemented a **DRM** system with packaging and license services for **WideVine** and **PlayReady**, ensuring secure content delivery across platforms.
- Enhanced system performance and **fine-tuning** the database to reduce response time by **30%**.
- Acted as a Technical Lead, mentoring and guiding junior developers to enhance their skills, ensure code quality, and deliver high-performing, scalable solutions.

### Technologies

NodeJS, DRM, REST API, MongoDB, FFMPEG

## HITACHI VANTARA - VIETNAM

Mar 2013 - Jun 2018

### Technical Lead

- Architected an employee, project, and finance management system with **real-time** updates, reducing reporting time by **50%** and enhancing project forecasting for improved decision-making.
- Led the creation of an **online ticketing** system supporting all SunGroup amusement parks, one of Asia's largest entertainment complexes. Streamlining sales and enhancing user experience across venues.
- Launched TAMAGO, a **project management** app that enables users to efficiently manage tasks, submit daily reports, and receive deadline alerts. The app increased team **productivity by 40%**.
- Recognized as Division **Employee of the Year** (2016) and Company Employee of the Year (2017).

### Technologies

Microservices, NodeJS, MongoDB, PostgreSQL, REST API, WebRTC, SocketIO, Stripe, Docker, Laravel,

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## HTK-INC

Sep 2009 - Mar 2013

### Fullstack Developer

- Implemented iOS applications utilizing **REST APIs**, XMPP **real-time** protocol, and Libjingle to enable chat, audio calls, and file transfer capabilities
- Built a Python and Django web application for **online shopping**, integrating PayPal as a payment gateway.

### Technologies

iOS, XMPP, Python, Django, REST API, WebSocket,

## SKILLS

|                      |  |
|----------------------|--|
| Core Technologies    | NodeJS, Python, GraphQL, Reactjs, RESTful API, WebSocket, WebRTC       |
| Database & Messaging | MongoDB, PostgreSQL, DynamoDB, Redis, OpenSearch, DocumentDB, RabbitMQ |
| Cloud & DevOps       | Docker, Sentry, Microservices, AWS Services, Signoz, Grafana           |

## LANGUAGES

**English** Fluent

**Vietnamese** Native

## EDUCATION

### Post and telecommunications institute of technology - Ho Chi Minh City

Master of Information Technology 2010 - 2012 Bachelor of Information Technology 2005 - 2010