

Duong Cong Vu | Senior Software Engineer

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CAREER SUMMARY

I'm Senior Software Engineer with over 6 years of experience in software development, specializing in complex system design and implementation. Experienced in leading development teams and managing the full software development lifecycle from requirements analysis to deployment and maintenance. Proficient in multiple programming languages and technologies, with strong analytical and problem-solving skills.

Passionate about software architecture, I aim to optimize system performance and ensure scalability and security. Aspiring to become a Technical Architect to design advanced software systems that meet intricate business and technical needs, while contributing to the company's sustainable development and innovation through effective technology solutions.

ABOUT ME

- Visit me: <https://congvu.net>
Github: <https://github.com/vudc>

CERTIFICATES

- Bachelor of Computer Science - Software Engineering
- AWS Cloud Practitioner ([see more](#))

WORK EXPERIENCE

The Access Group, *Senior Software Engineer*

June 2021 - now

- Successfully architected and designed scalable and high availability system APIs which provides bias-free hiring tools and analytics that help businesses reach more diverse candidates quickly, easily and cost-effectively.
- Upgraded to new version with using **Nestjs** from pure Javascript API application. Migrated from a monolithic system to an ecosystem of microservices each encapsulating a business capability.
- Developed backend API with **Nestjs**, **MySQL**, **MongoDB** and applied successfully **CQRS pattern** and **event-base** for communication among services with **Kafka** and **Redis** publisher, subscriber
- Designed and implemented scalable **AWS infrastructure** utilizing ECS, ECR, and Elastic Load Balancing for containerized applications, leveraging Docker for efficient deployment and continuous integration via GitHub Actions
- Implemented Infrastructure as Code (IaC) using **Terraform** to deploy and manage AWS infrastructure, ensuring efficient and repeatable provisioning processes.

SGH Asia, *Senior Fullstack Developer*

October 2020 - May 2021

- Migrated a monolithic Java application to a microservices architecture using **NodeJS** and **ReactJS**.
- Consistently developed new features and maintained existed single page application (SPA) using Angular, collaborated with team members to resolve technical issues, improved UI/UX.
- Developed a SPA for dynamic form with high performance using React and developed **Nestjs** application to integrate with existed core APIs.

- Managed and led a team with 8 members, providing technical guidance to build a real estate marketplace application.
- Designed architecture for Frontend and Backend web application.
- Developed a full-stack solution using **NodeJS, NextJS, MongoDB**, and **Elasticsearch**, delivering a high-performance search engine with full-text search and coordinate-based searching capabilities.
- Manage and deploy server using IIS express and Nginx for proxy API gateway.

EDUCATION

University of Science Ho Chi Minh City

2015 - 2019 Software Engineering

CONTRIBUTION

Hopamchuan.com – Biggest chord platform in Vietnam

- Developed dynamic chord views for piano, ukulele, and guitar using JavaScript and HTML5 Canvas, enabling interactive and responsive musical chord visualizations.
- Created instrument scale visualizations for guitar using HTML5 Canvas, providing interactive and dynamic representations of musical scales.

nestjs-activemq

- Created a library for activeMQ provider with Nestjs microservices

SKILLS

- Front-end: ReactJS, Redux, NextJS, TailwindCSS, React Hook Form, Tanstack
- Languages: Javascript, Typescript, C#
- Framework: NodeJS, NestJS, ExpressJS
- Databases: PostgreSQL, MongoDB, MySQL, ArangoDB, Opensearch
- APIs: RESTful, gRPC, GraphQL
- Caching: Redis
- Testing: Jest, Supertest, Sinon, Chai
- CI/CD: Jenkins, Gitlab CI/CD, Github action
- Design and Development Principles: CQRS, Saga, Event Sourcing
- Containerization vs Virtualization: Docker, ECS, ECR
- Message Broker : Kafka, RabbitMQ
- Search Engines: Elasticsearch, Opensearch
- Web servers: Nginx, MS IIS