

# Nguyễn Hoàng Vũ

Senior Software Engineer

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## Profile

- A Software Engineer with 5+ years of experience building high-performance back-end systems for routing, mapping, and logistics optimization.
- Specialized in Node.js, FastAPI, and microservices architecture, with proven success in reducing API costs and improving operational efficiency.
- Passion for solving real-world problems that have a direct impact on end users.

## Professional Experience

### Software Engineer → Senior Software Engineer

Ahamove ✉

07/2021 – Present

Ho Chi Minh City, Vietnam

- Develop **routing, address, and dispatching services** for the Last Mile Delivery platform.
- Build **self-hosted geospatial databases**, cutting map API costs by **70%**.
- Develop **Route Optimization** using **Google OR-Tools** and **VROOM** for OnWheel SaaS reduce manually scheduling in major traditional enterprise client.
- Design **dispatching logic**, improving driver-order matching and reducing idle time by **30%**.
- Integrate **OSRM** and **Valhalla** to optimize route accuracy for a diverse fleet (motorbike, truck, van), **reducing driver feedback regarding navigation errors**.
- Contribute to **OpenStreetMap**, improve Vietnamese geospatial data quality.

Tech Stack: Node.js, Fastify, Python, FastAPI, Redis, Docker, MongoDB, AWS.

### Back End Developer

06/2019 – 07/2021

Ho Chi Minh City, Vietnam

CodeStringers ✉

- Developed backend services for a **Learning Management System (LMS)** platform.
- Implemented business logic to handle dynamic requirements in education systems.
- Designed and deployed scalable backend infrastructure on **AWS**.

Tech Stack: Node.js, MongoDB, AWS

### Internship

01/2018 – 04/2018

Splus-Software JSC ✉

- Assisted in backend development tasks and learned software delivery best practices in a team environment.

## Education

### Engineer

FPT University

2015 – 2019 | Ho Chi Minh City, Vietnam

## Community Contributions

### OpenStreetMap Contributor

2024 – Present

Ho Chi Minh City, Vietnam

- Enhancing Vietnamese mapping data and integrating it into routing optimization systems.

## Awards

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### Tech Star

2024

#### Ahamove

Awarded for developing route optimization features that attract new partners for Onwheel SaaS.

### The Impressive Project - Carta AhaMap

2023

#### Ahamove

This award is issued to a team that helps improve Ahamove's map features, including Autocomplete and Geocoding.

## Projects

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### Fastify Boilerplate

04/2025

A ready-to-use boilerplate of the Fastify framework, shipped with TypeScript, MongoDB, and Redis, follows best practices in folder structure, Dockerfile, and API development.

### Pelias Client

A fork from pelias-client built internally for Ahamove's usage. It's a client that works directly with Elasticsearch (Pelias Geocoder)

### Polygon Lookup

Re-innovate an old library, update to use new syntax, ship with Typescript and better data structure

## Skills

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Javascript, Typescript, NodeJS, Fastify, Expressjs

Python, FastAPI, Google OR-Tools, VROOM

Elasticsearch

Docker, K8S, AWS EC2, AWS EKS

Serverless Function, AWS Lambda, Google Cloud Run

### Working Tools:

- Jira
- Slack
- Telegram
- Notion
- Git: Gitlab, Github,...

### On-site Requirement Gathering

Engaging directly with end-users and partners to identify and solve "in-the-field" delivery challenges.