

HUY DANG

Senior Full-stack Developer

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[Github](#) | [Linkedin](#) | [Portfolio](#)

Senior Full-Stack Software Engineer with 6+ years of experience building scalable web, IoT, and cloud-based systems.

TECHNICAL SKILLS

Programming Languages

- TypeScript, JavaScript

Backend

- Node.js: NestJS, ExpressJS
- REST APIs, Microservices, MQTT, TCP/WebSocket

Frontend

- React, Next.js, Tailwind CSS, Bootstraps

Infrastructure & DevOps

- AWS, Oracle Cloud, Docker, Kubernetes, GitHub Actions
- On-premise & cloud deployments

Databases

- PostgreSQL, MySQL, MongoDB

Testing

- Jest, Playwright
- Unit Test, E2E Test

Others

- React Native, VSCode/Theia Extension
- Strong knowledge of SOLID, OOP, system design
- AI-Assisted Development
- Experiences on Java, Python, Linux scripts

EDUCATION/CERTIFICATIONS

Bach Khoa University

ELECTRONICS & TELECOMMUNICATION ENGINEERING

GPA: 7.5/10

Vietnam

11/2015-11/2019

- **TOEIC Certificate issued by IIG Vietnam (Score: 935)**

11/2024

- **Oracle Cloud Infrastructure 2022 Certified Architect Associate**

12/2022

WORK EXPERIENCE

Renesas Design Vietnam (Onsite)
Senior Software Engineer

Ho Chi Minh
01/2019-01/2021
08/2023 - Now

Project: QuickConnect Studio

QuickConnect Studio is a cloud-based design platform allowing users to visually create software prototypes for rapid validation and product development. Engineers can drag and drop hardware device blocks to build solutions, and the platform auto-generates software for no-code development.

- Designed and developed Node.js/NestJS backend services to stream Android device screen and camera data into VSCode/Theia extensions, enabling remote debugging and device interaction.
- Led backend development for device management services, supporting large-scale device onboarding and monitoring.
- Built diagnostics and analytics services to track user sessions and behavior, improving visibility into product usage.
- Collaborated with DevOps to deploy services across AWS and Kubernetes clusters in multiple regions.
- Owned backend unit and E2E testing strategy using Jest, improving system stability and release confidence.
- Contributed to accessibility compliance and data analytics pipelines.

Viatick PTE (Remote)
Full-stack Developer

Singapore
01/2021-08/2023

Project: JARVIS

JARVIS platform is an all-in-one web-application that aims to provide solutions for indoor/outdoor personnel/asset tracking, ecosystem data, etc... using IoT technology, depends on the business logic on each template of JARVIS. JARVIS provides multiple templates to fulfill business logic of clients: Healthcare, Government, Real Estate,...

- Core backend engineer for an IoT-based asset and personnel tracking platform used across multiple industries (Healthcare, Government, Real Estate).
- Integrated and managed third-party IoT devices, supporting both cloud and on-premise deployments.
- Led migration from monolithic Java Spring Boot to TypeScript-based microservices on Node.js.
- Designed and implemented MQTT, TCP services, deployed on Kubernetes.
- Built React dashboards for real-time tracking and analytics, working closely with product teams in Singapore.
- Mentored new team members and participated in regular code reviews to maintain code quality.

LEADERSHIP EXPERIENCE

OneBerry Technology (Remote)

Team Lead

Singapore

02/2023-08/2023

Project: Virtual Patrol System

Virtual Patrol System is a platform that allows the users to have their officer running patrol or surveillance with cameras, using NX Witness.

- Collaborated with the Project Manager and Design Team from another company to transform the customer requirement into this application.
- Built the structure and core code for both backend and frontend.
- Conducted meetings to report the project status, also receiving feedback, new requirements for the developing team.
- Monitored application health status through written test cases and logging, then take actions in urgent cases that affect the application performance and user experiences.

FREELANCE EXPERIENCE

Project: ThingDash

04/2025-10/2025

ThingDash is an MQTT-support platform that allows users to extract and transform MQTT data without coding, enables connection and subscription to multiple MQTT brokers and provides tools for simplifying JSON payloads and data transformation. It also applies AI chatbot for support users on the application.

Tech Stack: Next.js, NestJS, EMQX, Node-Red

Project: ACC Management Application

12/2025-Now

Autodesk Cloud Construction (ACC) Management application is an internal application with the custom business logic for the client to use. It enables seamless authentication and management of BIM 360 and ACC projects through Autodesk Platform Services (APS) APIs.

Tech Stack: Next.js, Autodesk APIs