

HUY DANG

Full-stack Developer

Ho Chi Minh, Vietnam | (+84) 905347725 | dangquanghuy0204@gmail.com

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

TECHNICAL SKILLS

- Programming languages: Javascript, Typescript, Java.
- Backend: Node.js, Express.js, NestJS, TypeORM, Redis, Spring Boot, Hibernate, JPA.
- Frontend: ReactJS, Next.js, Bootstrap, Tailwind.
- Testing: Jest, Playwright.
- Infrastructure: Oracle Cloud, AWS, Docker, Kubernetes, Portainer, Github Actions.
- Database: MySQL, PostgreSQL, MongoDB.
- Others: React Native, Theia Framework, VSCode extension, Prometheus, Grafana.
- Good understanding of SOLID and OOP, can apply common Design Patterns.
- Knowledge on developing microservices, serverless.

EDUCATION

Bach Khoa University

ELECTRONICS & TELECOMMUNICATION ENGINEERING

GPA: 7.5/10

Vietnam

11/2015-11/2019

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. QuickConnect boards with standard connections are then available for users to deploy the auto-generated software to test within a matter of minutes.

- Key member of the back-end development team, delivered NodeJS backend applications for streaming Android devices screen and camera; construct connection between this backend application and VSCode/Theia extension using webview.
- Be responsible for developing and maintaining device management features in the backend, using NestJS framework.
- In charge of conducting test specification and test suites for the back-end application, including UT and E2E testing with Jest.
- Part of the infrastructure team, joining cloud deployment tasks (using AWS, Docker, and Kubernetes) and on-premise deployment.
- Worked with the testing team for generating testing scripts on VSCode extension components and modules, including UT with Jest and E2E with Playwright.
- Developed VSCode/Theia extensions for embedded functions in the application.
- Investigated and applied accessibility standards to the application.
- Part of the data analytics team, injecting tracking methods into the project and sending data to datasource, so that it can be visualized.

Keywords: NestJS, Express.js, ReactJS, Cloud-based IDE, VSCode extension, Theia, Accessibility, video streaming, Jest, Playwright, Unit Test, E2E Test,, AWS, Kubernetes, Docker.

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,...

- Key member of the development team, mostly working on the back-end, integrating IoT devices from third-party companies, deployment, both on cloud and on premise.
- Implemented enhancement for existing features as requirements from clients, including database design for new data and UI/UX design for new features.
- Migrated monolith, on-premise application to microservices, cloud based application, from Java Spring Boot to Typescript NodeJS.
- In charge of deploying on premise applications weekly, ensure all functions are working well before notifying the client to continue to use.
- Was responsible for managing devices, carefully checking and helping the clients to on-board the devices, and taking action immediately if anything goes wrong.
- Developed a simple mobile application that leverages Bluetooth and SIP Calling.
- Developed tcp, proxy server for different purposes, such as for chat server, receiving reading from IoT devices using MQTT protocol, etc. and deploy them to Kubernetes.
- Providing solutions for on-premise projects by packaging source code with Docker.
- Provided front-end new features to reflect tracking and analytics data by working closely with Singapore product teams with ReactJS.
- Worked with other teams to conduct, enhance and deliver user-friendly UI/UX.
- Participated in daily code review to ensure the performance and quality of all projects.
- Instructed and guided newcomers to get used to project code and working flows.

Keywords: Express.js, ReactJS, IoT, bluetooth devices, tracking, analytics, healthcare, tcp, microservices, monolith, Jest, Oracle, Kubernetes, Docker, Java, Spring Boot, MySQL, mongoDB.

Freelancer
Full-stack Developer

Project: ThingDash

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.

- Worked closely with the client to gather the requirements and develop, deploy the product, and make sure that new functions are delivered every 2 weeks.
- Developed backend using 3 packages for each purpose: REST APIs, MQTT Connection Manager, Data Exporting services,...
- Build frontend UI/UX and integrated with backend function to meet the client requirements.
- Continuously investigate and implement new technologies and solutions for better performance.
- Suggested clients with my own idea and experience for better product features and improvement.
- Stay aware of any bugs and provide hotfixes as soon as possible to make sure that production can be run smoothly without any interruption.

Keywords: NestJS, Next.js, Express, MQTT, Socket, Reactflow

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.
- Conducted meetings to report the project status, also receiving feedback, new requirements and breaking them down into tasks for the developing team.
- Frequently reviewed current applications and new requirements, in order to give the team ideas for enhancement and improvement.
- Built the structure and core code for both backend and frontend.
- Monitored application health status through written test cases and logging, then take actions in urgent cases that affect the application performance and user experiences.

Keywords: NestJS, Next.js, PostgreSQL, Redis, camera, NX Witness, video streaming, patrolling, leader.

CERTIFICATIONS

TOEIC Certificate issued by IIG Vietnam (Score: 945)

11/2024

Oracle Cloud Infrastructure 2022 Certified Architect Associate

12/2022