

Thien Dong Tran

Senior Fullstack Developer

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 Ho Chi Minh City, Vietnam

 github.com/dongitran

Senior Fullstack Developer with 7+ years of experience in embedded systems and backend development. Specialized in microservices architecture, payment systems integration, and DevOps optimization.

Experienced in leveraging AI agents and automation tools to enhance development workflows and productivity.

Work Experience

Senior Fullstack Developer

Apr 2022 - Present

UrBox

Managing and developing microservices architecture for fintech platform.

- Designed and implemented microservices with NestJS and Next.js, TypeORM, PostgreSQL, MongoDB, and Kafka messaging
- Integrated CyberSource payment gateway for payment processing
- Implemented authentication and authorization using Keycloak SSO and integrated Elasticsearch for search functionality
- Optimized GitHub Actions CI/CD workflows and worked with AWS services (EC2, S3, RDS, EKS)
- Implemented distributed tracing using OpenTelemetry, Grafana, Signoz and Kibana for monitoring
- Optimized database queries and implemented caching strategies, improving system performance
- Developed responsive user interfaces with Next.js/React and integrated with backend microservices
- Conducted code reviews and mentored junior/middle developers on best practices and system architecture

Key Contributions:

- Whitelabel payment systems for major banks (VPBank, ACB, VCB, JCB)
- Visa loyalty and points accumulation system
- UrCard System core features development

AI & Automation Projects:

- **UrTest (Private):** AI-powered tool to generate Playwright automation tests from manual test cases
- **UrAgent (Open-source - github.com/dongitran/UrAgent):** Autonomous coding agent built on Open SWE and applied at UrBox to automate feature development from requirements

Firmware Team Lead

Apr 2018 - Mar 2022

IDEA Technology

Led firmware development team for IoT and industrial automation projects.

- Led firmware development team for AGV (Automated Guided Vehicle) systems and industrial automation projects
- Developed control systems for vending machines, pallet dispenser machines, and IoT monitoring platform

Tech Stack: C++, Python, JavaScript

Key Projects: AGV Systems, Vending Machines, Pallet Dispenser Machines, IoT Monitoring Platform

Embedded Systems Engineer

Mar 2017 - Mar 2018

Truong Phat

Participated in the development of automation lines for plastic manufacturing processes.

- Developed PLC programs and control systems for industrial automation lines

Focus: Industrial Automation, PLC Programming, Manufacturing Process Control

Technical Skills

Backend: NestJS, Next.js, Node.js, TypeScript, TypeORM, REST API, Microservices

Database: PostgreSQL, MongoDB, Redis, Kafka, Elasticsearch

DevOps: GitHub Actions, Docker, Kubernetes,
OpenTelemetry, Grafana, Signoz, Kibana

Authentication: Keycloak, OAuth2, JWT

Education

Industrial University of Ho Chi Minh City

Electronics and Telecommunications | 2014 - 2018

Project Management (PMP) Training

Professional Development Course | 2025