

TRAN QUANG DAO

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SKILLS

- **Frontend:** HTML, CSS, JavaScript (ES6+), TypeScript, ReactJS, NextJS, Redux, SASS
- **Backend:** Node.js (Express, NestJS), Python (Flask)
- **Databases:** MySQL, PostgreSQL, MongoDB, Datastore
- **DevOps & Cloud:** Docker, Docker Compose, CI/CD (GitHub Actions), AWS
- **Others:** RESTful APIs, WebSocket, Firebase, Microservices, Git, Electron

WORK EXPERIENCE

AIPTGROUP VIETNAM - Fullstack developer	11/2024 - Present
EPOSO AI (Remote freelancer) - Tech leader	11/2024 - 01/2025
INVESTY CO LTD - Tech leader	11/2023 - 11/2024
BKC Labs - Fullstack developer	09/2022 - 10/2023

EDUCATION

Hanoi University of Science and Technology	8/2020 - 2/2025
Major: Computer Science	Graduation Grade: Very good

HIGHLIGHTED PROJECTS

AIPT INTERNAL PROCESS WEB – AIPT VIET NAM	11/2025 – Present
Full-Stack Developer	Team Size: 8

- Developed an internal web-based management system to digitize and automate key company workflows defined by the executive board.
- Enhanced operational efficiency by streamlining administrative processes and minimizing manual intervention.
- Took ownership of full-stack development, working across both backend and frontend to ensure a cohesive system experience.
- Implemented CI/CD pipelines and containerization with Docker to support scalable and rapid deployment.
- **Technologies:** ReactJS, Flask, MySQL, Docker, CI/CD

Chatbot AI – ALICE – AIPT VIET NAM	06/2025 – Present
Full-Stack Developer	Team Size: 3

- Developed an AI-powered chatbot named **Alice**, designed to integrate with the company's internal process management website.
- Supported natural language interactions for QA, internal document search, and database access for personalized responses.
- Took charge of full-stack development, building backend services, frontend integration, and AI workflows.
- Built microservices architecture to manage conversational logic, data interaction, and documentation retrieval.

- **Technologies:** ReactJS, Flask, MySQL, Docker, CI/CD, Microservices

AI-ASSISTED MEETING MANAGEMENT SYSTEM

Full-Stack Developer

04/2025 – 06/2025

Team Size: 2

- Built an AI-assisted platform to enhance meeting audio quality with noise reduction, echo cancellation, and volume normalization.
- Implemented a processing pipeline that receives raw meeting audio, performs enhancement, and forwards the improved stream to a speech-to-text engine.
- Developed backend and frontend modules to manage audio uploads/recordings, track processing status, and review final transcripts.
- Designed a microservices architecture to separate audio enhancement, transcription, storage, and web management services.
- **Technologies:** NodeJS, ReactJS, MongoDB, MySQL, Flask, Docker, CI/CD, Microservices

DATA EXTRACTION TOOL – LYNX

Full-Stack Developer

06/2025 – 08/2025

Team Size: 3

- Developed a desktop-based data extraction and monitoring tool targeting Android devices.
- Enabled remote access and control of installed Android devices, including real-time extraction of camera feed, microphone input, file manager contents, contacts, and messages.
- Built the interface using Electron and HTML while managing backend communication and data synchronization via Node.js and Java-based Android services.
- Designed a centralized server for managing multiple connected devices with real-time tracking and extraction control.
- **Technologies:** NodeJS, HTML, Electron, Java

VIDEO MASTER AI

Full-Stack Developer

02/2025 – 07/2025

Team Size: 7

- Developed both frontend dashboard and backend services for an AI-powered video analysis platform detecting and filtering human and vehicle activity.
- Implemented RESTful APIs and WebSocket channels to stream detection results, sync filters, and handle real-time search across long-duration video archives.
- Integrated with AI inference services for person/vehicle detection and tracking, and designed database schemas to store video metadata and event logs.
- Optimized query performance, pagination, and data loading to keep the UI responsive while working with large video datasets.
- **Technologies:** ReactJS, NodeJS, WebSocket, RESTful APIs, Docker

PEOPLE & LICENSE PLATE RECOGNITION ACCESS CONTROL SYSTEM

05/2024 – 10/2024

Full-Stack Developer

Team Size: 3

- Developed a computer-vision-based access control system to detect people and recognize vehicle license plates at entry and exit points.
- Implemented a real-time video processing pipeline using deep learning models and OCR to identify persons and extract license plate numbers.

- Built an admin dashboard to monitor in/out events, review snapshots, and search historical logs by time, person, or license plate.
- Integrated the system with a database and notification service to alert security staff when unknown or blacklisted vehicles are detected.
- **Technologies:** Python, OpenCV, YOLO, OCR, Flask, ReactJS, PostgreSQL, Docker

SAMSUNG ENERGY SIMULATOR – EPOSO AI (Remote Freelancer) 01/2025 – 03/2025
Full-Stack Developer *Team Size: 3*

- Built a smart energy management system for Samsung to estimate electricity cost savings and optimize consumption.
- Developed a simulation tool allowing users to compare energy usage between traditional and optimized air conditioners.
- Created user segmentation for Vietnam, India, and Thailand with localized electricity pricing models.
- **Technologies:** NextJS, NestJS, PostgreSQL, Docker, CI/CD (GitHub)

INVESTY – Investy Co., Ltd 02/2024 – 11/2024
Full-Stack Developer *Team Size: 2*

- Developed a global job-matching platform connecting Vietnamese students with international opportunities.
- Built a freelance job marketplace for project-based hiring.
- Integrated a course registration module for Korean universities.
- **Technologies:** ReactJS, Redux, NodeJS, MongoDB, WebSocket, Firebase, Docker, CI/CD

AWARDS AND HONORS

- 07/2023: Top 10 NestQuant Tournament
- 06/2024: Top 3 Fintech Innovation Competition

LANGUAGES

English: TOEIC 635 – Able to communicate with customers.