

Nguyen The Loc

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EDUCATION

Ho Chi Minh City University of Technology (HCMUT)

B.Eng. in Computer Engineering (Advanced Program) — IoT & Network Security

Ho Chi Minh City, Vietnam

2019 – 2025

PROFESSIONAL EXPERIENCE

ST Engineering

Software Engineer — C2 Systems & Hardware Integration

Ho Chi Minh City, Vietnam

Jun 2025 – Present

Project: **Counter-Drone (C-UAS) Command & Control System**

- Implemented **C/C++** and **Python** hardware interfaces for **SDRs, RF sensors, radar, EO/IR, and jammers**, processing high-frequency telemetry with **sub-10ms latency**.
- Built the operator console and live **3D GIS map** using **React, Cesium** with Blender-based 3D models, and **Go (Echo)**, smoothly rendering 1,000+ live aerial tracks.
- Contributed to the **AI Fusion pipeline**, including the **Drone Detection module**, correlating AI-generated targets with multi-sensor data for identification, assessment, and tracking
- Developed interoperability services using **REST, gRPC, and MQTT** to integrate heterogeneous sensors with the **SAPIENT Protocol**, supporting ingestion of **10,000+ messages/sec** across the C2 system.

Dision Tech LLC

Software Engineer

Ho Chi Minh City, Vietnam

May 2024 – Jun 2025

Project: **Multi-Tenant Endpoint Threat Detection & Response (EDR/XDR) Platform**

- Built the analyst console and desktop client with **React** and **Tauri**, backed by **Go (Echo)** services, delivering real-time endpoint security visibility across **400+ devices per tenant**.
- Designed and built a **plugin architecture** and **SDK** for the React monorepo, unblocking parallel development and reducing feature time-to-market for the engineering team.
- Centralised content management with **Strapi CMS**, enabling the marketing team to publish across multiple company websites without engineering involvement.

Turbo Technology Solution JSC

Software Engineer — Contractor

Ho Chi Minh City, Vietnam & US

Nov 2023 – Dec 2024

Project: **VAIDO AI Vision — Facial-Recognition Visitor Management**

- Built the visitor management frontend with **Next.js** and **React Native**, shipped as an **ElectronJS** desktop application with real-time visitor check-in and tracking.
- Integrated the **VAIDO AI Vision 7.0** facial-recognition engine by developing **Java / Spring Boot REST** services between the AI engine and application.

Aura Group

Software Engineer

Ho Chi Minh City, Vietnam

Jan 2023 – Jan 2024

Project: **Aura ERP — Booking & Revenue Management System**

- Developed booking and revenue modules using **Next.js, Node.js, and Supabase**.
- Built an end-to-end Android POS booking application with **React Native / Flutter**, plus a **Node.js**-backed Zalo Mini App for real-time revenue tracking.
- Automated booking and check-in/check-out notifications with a custom **Lark bot** using Node.js webhooks.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript (ES6+), Go, Python, C/C++, SQL
Backend / APIs	Go (Echo), Node.js, Flask, Express.js, gRPC, WebSocket, MQTT, REST, SAPIENT
Frontend	React, Next.js, TanStack, Zustand, Vite, Ant Design, Fluent UI
Data / DevOps	PostgreSQL, MongoDB, SQLite, Docker, Git, Linux, WSL, DroneCI, Caddy, Supabase, Strapi
AI / Vision	AI Integration, Computer Vision, Object Detection, Facial Recognition, Model Inference
Mobile / Desktop	React Native, Flutter, ElectronJS, Tauri, Zalo Mini App
Geospatial	Cesium, 3D Visualization, GIS
Embedded / RF	STM32, ESP32, M5Stack, SDRs, RF Sensors, EO/IR, Radar, Jammers.

ACTIVITIES, CERTIFICATIONS & HONORS

- Google Solution Challenge (2021–2022)** — Flutter and Firebase solution supporting the UN Sustainable Development Goals.
- BUILD-IT Innovation & Entrepreneurship Challenge (2023)** — Certificate of Achievement; **Top 9, HCMUT Presentation Contest (2019); IELTS 6.5 (2022)**.