

RESUME

Resume

Bao Nam Do (Đỗ Bảo Nam)

A student, builder, and community leader who learns by creating technology and leads through long-term service.

12th-grade student (Newton Grammar School, Hanoi) focused on Computer Science, AI and Robotics, building AI tools that make learning more accessible.

| Education

Newton Grammar School

Hanoi · Grade 12 · Talent class (Go) · Full three-year scholarship

GPA: 9.80 → 9.80 → 9.86 · SAT 1560

| Skills

Languages: Python, C++, TypeScript / JavaScript

Domains: Algorithms & data structures, Machine learning, OCR & speech, Mathematical modeling, Robotics

Human: User research, Team leadership, Public speaking (EN/VI)

Selected Projects

AvaB 2024

[GitHub ↗](#)

Turning personalized learning from an idea into a student-led education platform.

[Product strategy](#)[Web platform](#)[AI personalization](#)[Content engineering](#)[Operations](#)

EduVision-AI 2025

[GitHub ↗](#) [Demo ↗](#)

Building accessible learning technology with visually impaired students and teachers.

[Python](#)[FastAPI](#)[RAG](#)[Google Vision + Tesseract OCR](#)[Bilingual TTS \(VI/EN\)](#)[Telegram + Web](#)

Kỳ Anh Audio Guide 2026

[Demo ↗](#) [GitHub ↗](#)

An AI heritage guide I built and gave to a national historic site.

[Python](#)[FastAPI](#)[JavaScript](#)[AI Text-to-Speech \(ElevenLabs\)](#)[QR Code](#)[Google Maps API](#)

GreenLight 2025

[Demo ↗](#) [GitHub ↗](#)

Décor from recycled materials — a real startup where I ran the technology.

[Web platform](#)[E-commerce](#)[System design](#)[Operations](#)

PCCC-YOLO — Real-time Fire & Smoke Detection 2025

[GitHub ↗](#) [Demo ↗](#)

AI that watches for fire in the places most likely to burn.

[Python](#)[YOLOv8 \(Ultralytics\)](#)[OpenCV](#)[PyTorch](#)[Google Colab \(T4\)](#)

skinDisease — Dermatology Classification 2025

[GitHub ↗](#) [Demo ↗](#)

Deep learning that flags 23 skin conditions from a photo.

[Python](#)[PyTorch](#)[EfficientNet-Bo](#)[timm](#)[Albumentations](#)[Grad-CAM](#)

GreenVision AI — Smart Energy Monitoring 2025

[GitHub ↗](#) [Demo ↗](#)

Cutting wasted electricity in schools with vision + IoT.

[Python](#)[FastAPI](#)[YOLOv8](#)[OpenCV](#)[React 19](#)[TypeScript](#)

| Achievements, by area

Mathematics · 7

Vietnam National Team — IMSO	2021
70+ medals — international math competitions	2021
1st Prize — District Mathematics Excellent-Student Contest	2024
3rd Prize — Hanoi City Mathematics Excellent-Student Contest	2024
Admitted to 3 specialized-math high schools	2024
Selected for the Grade-12 Hanoi City math contest in Grade 10	2024
Mathematical Modeling (NEXUS) — 2nd Prize, then Top 10	2025

Informatics · 4

Newton Open Programming — 1st Prize (Grade 11) · 2nd Prize (Grade 10)	2025
Consolation Prize — Hanoi City Informatics (competing a grade up)	2025
Graduated with distinction — ITPLUS Academy	2024
One of the first 50 high- schoolers nationwide — AI Young Talent Club	2024

Robotics · 4

Tournament Champion — VEX V5RC Robotics (Road to Nationals)	2025
VEX Robotics World Championship — USA 2026	2026
Skills Champion & Innovate Award — Vietnam National Robotics	2025
Talent Award & First Honor — Asia Robotics (Beijing)	2025

Research & Innovation · 4

Co-author — international paper: “Chatbot and Reproductive Health for Minority Women”	2025
2nd Prize — Hanoi City · Student Startup Ideas 2025	2025
Scientific Research — tracing raw materials in seafood to fight trade fraud	2025
3rd Prize — Hanoi City · Startup Ideas (Grade 10)	2024

Leadership · 5

Speaker (representing Vietnam) — Hwa Chong APYLS, Singapore 2026

Co-founder & President — Infinity Math Club 2026

Vice President, IT — Newton Robotics Club 2025

Technology & Sponsorship Coordinator — Newton MUN Club 2025

Referee & volunteer organizer — Robotics for Good, Hanoi 2026

Community Impact · 2

Certificate of Merit — Hung Yen Study Encouragement Association 2024

Principals' & Commune Chairman's commendations 2024