

NGUYEN BAO NGAN

STUDENT | TECHNOLOGY, RESEARCH & COMMUNITY IMPACT

Ho Chi Minh City, Vietnam | jasmine.nguyenbao@gmail.com | +84 937 606 069

Vietnamese student passionate about mathematics, AI, computer vision, and building technology-driven projects with meaningful environmental and social impact.

EDUCATION & SKILLS

Tran Dai Nghia High School for the Gifted | 2024-2027

GPA: Grade 9: 9.4/10 | Grade 10: 9.4/10 | Grade 11: 9.8/10

SAT: 1500/1600 | IELTS: 7.5/9.0

Programming: Python, C++ | Experience: Google Colab, Pandas, Matplotlib, MobileNetV2

SELECTED PROJECTS & RESEARCH

Plant For Change | Environmental web platform

Developed a platform connecting tree-planting initiatives, interactive data tracking, and community engagement. Engaged 100+ active users and featured 10+ projects across Ho Chi Minh City and neighboring provinces.

HCMC-FloodRoute | AI-driven flood and traffic analytics

Contributed as part of a three-member team. Applied MobileNetV2 with ImageNet pretraining to classify three flood-severity levels, achieving 90% accuracy and a 0.90 F1-score. Explored AI-powered route planning for safer, more sustainable transportation.

Machine Learning-Based Fire Detection for Highway | WICO 2026 research team

Contributed to dataset collection, preprocessing, augmentation, normalization, and a MobileNetV2-based CNN for binary fire classification. Supported automated alerts and evaluation of accuracy, detection latency, and real-time usability.

HONORS & AWARDS

- Gold Medal - 15th World Invention Creativity Olympics (WICO), 2026
- Silver Medal - AI Challenge Contest, EcoGen, FEEE / HCMUTE, June-July 2026
- Bronze Medal - Fermat Mathematical Olympiad (FMO), 2026
- Top 20% - International Kangaroo Mathematics Competition (IKMC), 2025
- C (Top 6-10%) - American Mathematics Competitions 10, 2025

LEADERSHIP

President, Handmade Club | 2024-Present

Lead approximately 70 members; oversee operations, financial planning, and events. Organized a Tet workshop for 600+ participants and cultural activities for international student delegations. Raised 5+ million VND for two charity trips; community of 5.8K+ followers.

Founder, Scam Aware | 2024-Present

Lead 15 members promoting cybersecurity awareness and AI literacy. Built a community of 1,000+ followers; delivered a workshop for 50 participants. Introduced coding to 50 Maison Chance students and coordinated 50 gift packages.

Founder, Plant For Change | 2025-Present

Lead 20 members and a community of 2,000+ followers. Developed a Green Library, provided 100+ gift packages, and planted or donated 150+ trees. Engaged 200+ students and community members.

EXPERIENCE & COMMUNITY SERVICE

AI Training Intern, FEEE / HCMUTE | July 2025

Completed five sessions in AI, machine learning, Python, and computer vision. Applied classification, regression, Decision Tree, and KNN models; presented a mini project on waste classification and plant-condition recognition.

Programmer Intern | Creato Vietnam, Co., Ltd.

Programming internship.

Volunteer, Summer Volunteering Project | Hau Giang Province | July 2025

Supported a program combining STEM experiments, life skills, creative activities, and environmental education. Program support included 110 student gifts, 20 scholarships, 10 family packages, and VND 4 million in school repairs; total value nearly VND 56 million.