

Nguyen Kim **Hai** Bui – Bùi Nguyễn Kim **Hải**

[huggingface/wnkh](#) | [github/whynotkimhari](#) | buingkimhai@gmail.com | +36 704016848 | [linkedin/wnkh](#)

Objective

Result-oriented and innovative, I challenge conventions through a dual perspective mindset, constantly striving for growth. I bring strong technical expertise and research-driven problem-solving to create high-quality results.

Education

S.B. Computer Science – ELTE, Hungary (CGPA: 4.9/5.0) Sep 2023 – Jul 2026
S.B. Computer Science – UIT, VNUHCM, Vietnam (CGPA: 8.8/10) Sep 2022 – Jul 2023

Experience

Backend Developer Intern, Butopêa Jan 2025 – Present

- Implementing unit and E2E tests to maintain module reliability. Developing new features and performing error analysis to enhance workflow performance and optimize company operations to manage **more than 20.000** products.
- Mentor: **CTO/Co-Founder Alexander Schikalow**

Research Intern, Neural Information Processing Group Jan 2025 – Present

- Integrating state-of-the-art 6D object pose estimation methods, including MegaPose and GigaPose, for robotic manipulation tasks.
- Supervisor: **Prof. Dr. Habil. Lőrincz András**
- Topics: 3D Digital Twin & Human & Applications.

Research Intern, Modeling Lab Sep 2024 – Sep 2025

- Developing a neural network combining Transformer Encoder architecture with Time2Vec embeddings.
- Proposing a novel approach for clustering highly correlated stocks to enhance financial prediction models. The result outperforms traditional methods by **approximately 15%**.
- Supervisor: **Asst. Prof. Dr. Gergő Bognár**
- Topics: Financial Prediction.

Research Intern, VietMed Team Jun 2024 – Present

- Designing and building a synthetic/augmented data generation and processing pipeline. Conducting validation and verification of generated datasets to ensure quality and reliability.
- Create the largest medical machine translation (MT) dataset and the largest many-to-many multilingual ST among all domains with **290,000** samples across **5 languages** consist of Vietnamese, English, German, French, Traditional Chinese, and Simplified Chinese.
- Mentor: **Khai Le-Duc**
- Topics: Medical Intent Detection, Medical Multilingual Machine Translation.

Publications & Preprints

Transformer Encoder and Multi-features Time2Vec for Financial Prediction Under Review @EUSIPCO 2025

Authors: *Nguyen Kim Hai Bui, N. D. Chien, P. Kovács, G. Bognár*

MultiMed-ST: Large-scale Many-to-many Multilingual Medical Speech Translation Under Review @ACL 2025

Authors: *K. Le-Duc, T. Tran, B. P. Tat, Nguyen Kim Hai Bui, Q. D. Anh, H.-P. Tran, T. T. Nguyen, L. Nguyen, T. M. Phan, T. T. P. Tran, C. Ngo, K. X. Nguyen, T. Nguyen-Tang*

Awards & Funds

Special Prize, Hungarian National Student Research Conference OTDK 37 Apr 2025

First Prize, ELTE TDK 2024 Fall Conference Dec 2024

Third Prize, ELTE TDK 2024 Spring Conference Apr 2024

Stipendium Hungaricum Scholarship

Jul 2023

Consolation Prize, Vietnamese National Undergraduate Mathematical Olympiad 2023

Apr 2023

Second Prize in Math – Vietnamese Excellent Student, City level

Apr 2022

Bronze Medal in Math – Vietnamese 30/4 Olympiad, Region level

Apr 2021

Technologies

Languages: Python, JS/HTML/CSS, Java, SQL, PL/SQL, PHP, C/C++/C#, LaTeX, Clean, R, GraphQL

Software: Git, Hungging Face, Google Colab, Kaggle, Overleaf, Jira, Postman, K3s

Architectures: REST API, MVC, ORM, Monolithic

Courses & Certifications

AWS Educate:

- **Cloud:** Introduction to Cloud 101
- **Machine Learning:** Machine Learning Foundation

Cisco: IoT Fundamentals: Big Data & Analytics

CS50: CS50X, CS50AI, CS50P

DeepLearning.AI:

- **Short Course:** LLMs as Operating Systems: Agent Memory by Letta

HackerRank:

- **SQL:** SQL Basic, SQL Intermediate, SQL Advanced
- **Problem Solving:** Problem Solving Basic
- **JavaScript:** JavaScript Basic, JavaScript Intermediate
- **Java:** Java Basic
- **Role:** Software Engineer Intern Test, Software Engineer Test

Kaggle:

- **Deep Learning:** Intro to DL
- **Python:** Python, Pandas
- **Machine Learning:** Intro to ML, Intermediate ML, ML Explainability
- **SQL:** Intro to SQL, Advanced SQL