

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

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Personal Statement

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.

Experience

Backend Developer, Butopêa Jan 2025 – Present

- Implementing unit and E2E tests to maintain module reliability. Developing features, integrating third parties such as OTPSimplePay, OpenCart, and performing error analysis to enhance workflow performance and optimize operations to manage **more than 20.000** products.
- Tech stack: Odoo, Python, GraphQL

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 large medical machine translation (MT) dataset and the large 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.
- Topics: Medical Intent Detection, Medical Multilingual Machine Translation.

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%**.
- Topics: Financial Prediction.

Research Intern, Neural Information Processing Group Jan 2025 – May 2025

- Integrating state-of-the-art 6D object pose estimation methods, including MegaPose and GigaPose, for hand manipulation tasks.
- Topics: 3D Digital Twin & Human & Applications.

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

Publications & Preprints

Transformer Encoder and Multi-features Time2Vec for Financial Prediction [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 [Preprint]

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

University Excellence Fund of Eötvös Loránd University Sep 2025

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

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