

THOMAS HOANG

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EDUCATIONAL BACKGROUND

Denison University, Granville, OH

Expected Graduation: May 2025

Bachelor of Sciences, Computer Science, and Mathematics

Denison Alumni Award (2021), Anderson Science Scholar Award (2022), Crown Fellowship Award (2023).

TECHNICAL PROFICIENCIES

- Programming Languages: C/C++ | C# | Python | SQL | R | Javascript.
- Database: SQL Server | Azure SQL.
- Mathematics and Algorithms: Non-linear Algorithms | Data Structures And Algorithms.
- Others: ASP MVC | .NET framework | Fluent API | LINQ method | Design Pattern | Unit Test skills | Low-Code Outsystems.

WORK AND RESEARCH EXPERIENCES

Data Engineer Intern

May 2023 - August 2023

(Costco Wholesale) FPT Americas, Richardson, Texas, United States

- Implemented data manipulation operations, including joins, sub-queries, aggregations, and stored procedures, contributing to improved data processing and analysis. ([SQL Server](#))
- Organized and processed large volumes of data, ensuring data quality, security, and compliance. ([Azure Synapse Analytics](#))

Anderson Undergraduate Researcher

May 2022 - August 2022

Denison University "Non-linear Indistinguishability Query"

- Designed multi-criteria decision-making algorithms to narrow down a large database of over a million items to select a few optimal items. ([Database Query Processing Algorithms](#))
- Generalized query processing algorithm to a broad set of three functions, including convex, concave, and CES.
- Approximated user's utility functions to a reasonable degree of precision, nearly zero, using artificial tuples with provable bounds. ([Polynomials](#), [Exponential](#), [Logarithmic Functions](#))
- Achieved nearly zero errors by asking more questions on interactive phases for novel query processing algorithms. ([C++](#), [Python](#))

Research Assistant

May 2020 - May 2021

The University of Tartu, Tartu, Estonia

- Conducted research on "Subordinate And Supervisor Relationship Through the Lens of Guanxi: First Empirical Research in Vietnam" paper, supervised by Junior Research Fellow, Dr. Quan Hoang Nguyen Tran. ([Economics and Business Administration](#))
- Fulfilled 100% KPIs with quality and quantity of collecting data from different types of employment, including C-levels, managers, and employees, and making judgments in analysis. ([Leadership](#), [Teamwork](#), [Communication](#))

Software Engineer Intern

October 2020 - March 2021

(FVile), FPT Software, Hanoi, Vietnam

- Coded both on the Front-end and Back-end of the Projects. ([.NET Framework](#), [C#](#), [OOP](#), [Javascript](#), [HTML5](#), [CSS3](#), [Bootstrap](#))
- Designed one complete website with a database and APIs among layers, satisfying integration model, security, and repository design pattern. ([Fluent API](#), [Design Pattern](#), [unit test](#), [SQL Server](#))
- Developed one web-based application followed by web service and layered architecture based on MVC. ([ASP.NET MVC](#))

Research Assistant

August 2018 - December 2019

UNESCO "Youth: Evidence for Change", Hanoi, Vietnam

- Researched one main reform of Youth Law in Vietnam, namely "Assessment of Vietnamese Youth's Awareness towards LGBT Community" to ensure a comprehensively revised Youth Law and gender equality. ([Sociology](#))
- Analyzed in surveys satisfying 100% of KPIs to provide practical evidence to mobilize the Vietnamese government to recognize the LGBT + group's presence in existing legal documents. ([Legal Reading](#), [Communication](#))
- Analyzed and interpreted data by implementing computer techniques to calculate statistical values of 875 people to understand trend in attitude and knowledge of youth towards LGBTQ community. ([Excel](#))

EXTRA CURRICULAR ACTIVITIES

Boxing: Train privately with WBA champion, Truong Dinh Hoang as advisor and coaches.

Chess: Attain over 3900 games with ELO, ranking about 2100 of classic styles, ranked about 400th/14500 players in Chess24.com.