**Bachelor of Science, Double Major Math and Computer Science**

**Languages: Python, R, Java, Javascript, Swift, C#, C++, Scheme, Assembly**
**Technologies: Tensorflow, Pytorch, Keras, Numpy, Matplotlib, Onnx, TensorRT, ReactJS, Flask, Express, Docker, Git**

**Artificial Intelligence, Evolutionary Computing, Data Structure, Deep Learning Specialization, Big Data Analysis**

● **Wrote an extension of the turtle library by adding the ability for turtle to replicate an input image.**
● **Trained a Neuroevolution of augmenting Topologies network, enabling the turtle to make its own decisions**

● **Used Alpha –Beta Pruning to create an AI that excels in Konane – a Hawaiian checker game.**
● **Wrote Q – Learning from scratch that solved OpenAI Gym Level.**
● **Reimplemented and reproduced: The Royal Road for Genetic Algorithms: Fitness Landscapes and GA Performance**
● **Wrote popular search-based methods from scratch: DFS, BFS, State-based Search, Tree Search, A* heuristic**

**Contributed to the project "Machine Learning Yearning" and "Dive Deep into DL" into Vietnamese**

●**Built a machine learning model to match users/ hotels based on user's interaction with TripAdvisor's datasets.**
● **Tested Naïve Bayes, Decision Tree, SVM and Neural Network with k-fold validation in R.**

● **Preprocessing, crawling terabytes of genetic data for transcription factor binding model**
● **Developing transcription factor binding model to improve Netzen's ability to detect cancer genes**

● **Performed and researched different deep learning architectures for action recognition on harassment and violence**
● **In charge of most detection task such as license plates, id, signature, and stamp detection**
● **Optimized model by pruning, quantizing, knowledge distillation to, reducing models' inference time b**
● **Crawled, annotated, and labelled real world data.**

●**Trained face recognition model and built pipeline to take employee attendance and monitor customer in real time**

● **Researched several deep learning models for person re-identification and action recognition**
● **Crawled data in the wild and Augment, generated Data for face-recognition software**

● **Learned Deep Learning Techniques. Collected Data for the company's speech recognition software**

● **Taught number theory to Vietnam junior and senior team of International Mathematic Competition 2017.**

● **Distinguished Performance Rochester Mathematic Olympiad**
● **Top 15% William Lowell Putnam Mathematical Competition.**
● **Champion of Hanoi Codeathon. Forth place of Vietnam Mathematics Olympiad (VMO).**
● **Silver Prize of Hanoi Math Modeling Contest. First Prize of Hanoi Mathematics Olympiad.**
● **Gold Prize of Hanoi Math Modeling Contest**