

KHOA NGO

NTHEANH KHOA@GMAIL.COM | (+1) 518-986-9793 | 807 UNION ST – SCHENECTADY – NY – USA

EDUCATION UNION COLLEGE – SCHENECTADY – NEW YORK

BACHELOR OF SCIENCE, DOUBLE MAJOR MATH AND COMPUTER SCIENCE

TECH AND COMPUTER SKILLS

LANGUAGES: PYTHON, R, JAVA, JAVASCRIPT, SWIFT, C#, C++, SCHEME, ASSEMBLY

TECHNOLOGIES: TENSORFLOW, PYTORCH, KERAS, NUMPY, MATPLOTLIB, ONNX, TENSORRT, REACTJS, FLASK, EXPRESS, DOCKER, GIT

RELEVANT COURSEWORK

ARTIFICIAL INTELLIGENCE, EVOLUTIONARY COMPUTING, DATA STRUCTURE, DEEP LEARNING SPECIALIZATION, BIG DATA ANALYSIS

TURTLEAI – IMAGE REPLICATING TURTLE

- 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

AGENT-BASED ARTIFICIAL INTELLIGENCE PROJECT

- 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

DEEP LEARNING BOOK TRANSLATION

CONTRIBUTED TO THE PROJECT “MACHINE LEARNING YEARNING” AND “DIVE DEEP INTO DL” INTO VIETNAMESE

TRIPADVISOR USER/HOTEL MATCHING

- 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.

RESEARCH INTERN, DR. DAVID TRAN LABORATORY OF QUANTITATIVE CANCER

NOVEMBER 2021 – JANUARY 2022

- 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

APPLIED SCIENTIST, COMPUTER VISION RESEARCH INTERN, VINBRAIN

JANUARY 2021 – APRIL 2022

- 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.

COMPUTER VISION RESEARCH INTERN MOBIFONE RESEARCH& DEVELOPMENT LAB

SEPTEMBER 2020 – JANUARY 2021

- TRAINED FACE RECOGNITION MODEL AND BUILT PIPELINE TO TAKE EMPLOYEE ATTENDANCE AND MONITOR CUSTOMER IN REAL TIME

RESEARCH AND DEVELOPMENT INTERN ICOMM MEDIA & TECH JSC

MAY 2020 – SEPTEMBER 2020

- 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

DEEP LEARNING APPRENTICE, INFOTECHNOLOGY

FEB 2018 - JUL 2018

- LEARNED DEEP LEARNING TECHNIQUES. COLLECTED DATA FOR THE COMPANY'S SPEECH RECOGNITION SOFTWARE

TUTOR, INTERNATIONAL MATHEMATIC COMPETITION VIETNAM TEAM

MAY 2017 – AUGUST 2017

- 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