Khoi Nguyen

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⌨ https://github.com/ducminhkhoi

in https://www.linkedin.com/in/nguyenducminhkhoi/

Research interests: Computer Vision, Machine Learning, Deep Learning and NLP

EDUCATION

Fall 2015 – Spring 2020 (expected)

Ph.D. in Computer Science
Oregon State University, Corvallis, OR 97331, USA
- Research Interest: Machine Learning, Computer Vision and NLP
- Advisor: Prof. Sinisa Todorovic

Fall 2015 – Summer 2017

Master of Science in Computer Science
Oregon State University, Corvallis, OR 97331, USA
- Thesis: "Relational Networks for Visual Relationship Detection",
- Advisor: Prof. Sinisa Todorovic (GPA 3.71/4)

Fall 2009 – Spring 2014

Bachelors's degree in Computer Science
Bach Khoa University (HCMUT), HCMC, Vietnam
- Thesis: "Entity Disambiguation System based on Wikipedia", advisor: Prof. Tru Cao
- Top-5 student in Computer Science Program (total 330 students), (GPA 8.51/10)

SKILLS/ EXPERIENCE

Research Experience
- **Precipitation Prediction** (Python), building Model for predicting the precipitation of a certain place by using sensor data - https://github.com/ducminhkhoi/PrecipitationPrediction
- **Action Recognition** (Python, Keras), a research project that implements a research paper of action recognition by using LSTM - https://github.com/ducminhkhoi/lstm_tracking
- **Visual Relationship Detection** (Python, Pytorch), a novel research on Visual Relationship Detection by using Object Detection, Message Passing technique (on going)

Course Experience
- **Artificial Intelligence**, final project (Python): solving 2048 game with heuristic based algorithms and Monte Carlo Tree Search algorithm - https://github.com/ducminhkhoi/2048AI_solver
- **Machine Learning**, final project (Matlab): detecting falling action in videos using Support Vector Machine and Hidden Markov Model - https://github.com/ducminhkhoi/FallDetection
- **Deep Learning**, final project (Python, Keras): Image Captioning - generating description from images - https://github.com/ducminhkhoi/Image-Captioning
- **Reinforcement Learning**, final project (Python, Pytorch): playing Flappy Bird and other simulation games such as Bipedal Working, Lunar Landing using DQN, A3C and DDPG algorithm - https://github.com/ducminhkhoi/DRL

Teaching Experience
Teaching Assistant at Bach Khoa University (HCMUT), HCMC, Vietnam
- Introduction to Programming, Fall 2014
- Principal of Programming Language, Fall 2013
- Artificial Intelligent, Spring 2013
- Data Structure and Algorithm, Fall 2012

Training Experience
Bach Khoa University (HCMUT), HCMC, Vietnam
- Introduction to Python Programming, Fall 2012 (15 students)
- Introduction to Web Development (HTML, CSS, Javascript), Fall 2013 (30 students)
- Introduction to Android Programming, Fall 2014 (50 students)

Internship Experience	ELCA Informatique SA, Ho Chi Minh City, Vietnam (Summer 2012)
	• Job's position: Java Software Internship
	• Job's description: Develop web application using Spring MVC Framework
Leadership Experience	• Google Student Ambassador (June 2013 to May 2014)
	• Class Monitor of Honor Student Program (September 2010 - April 2014)
	• Vice President of English Speaking Club (September 2010 - April 2011)
Programming Languages	Python - Professional (daily use)
	• Scientific frameworks: Numpy, Scipy, Matplotlib, Scikit-learn
	• Deep Learning frameworks: Keras, Pytorch, TensorFlow
	Other languages:
	• C/C++ and Matlab - Intermediate
	• Java, C#, Javascript - Have some experience

ADDITIONAL INFORMATION ───────────────────────────────────

References	References upon request
Awards/Scholarships	• Vietnam Education Foundation (VEF) Fellowship (Cohort 2015)
	• Student with Five Good Aspects: Ethics, Academic, Physical Fitness, Skill, Integration of Vietnam National University
Language Skills	English - Professional
	• TOEFL iBT: 106
	• Can communicate effectively and write technical documents
	Chinese - Intermediate
	• Can communicate with daily topic
Interests	Exercise, Meditation, Group Activity, Sharing Knowledge