

Trinh Hoang Trieu

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Education

2013 – present, <i>GPA: 3.90 (May 2016)</i>	Bachelor of Science, Advanced Program in Computer Science	Ho Chi Minh University of Science, Vietnam National University (VNU)
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Research Internships

May 2016 – July 2016	Misfit Wearables Inc.	Deep Learning for Computer Vision
<ul style="list-style-type: none">• Work with Tensorflow, Caffe; bring Deep Learning models onto mobile devices.• Developed two vision applications on iDevices (Objective C++)		
January 2016 – March 2016	Japan Advanced Institute of Science and Technology	Deep Learning for Natural Language Processing
<ul style="list-style-type: none">• Translate Theano code to Tensorflow.• Experimented: <i>LSTM</i>, <i>GRU</i>, <i>CNN - LSTM</i> on Mikolov's Word2vec embeddings.• Improved Convolutional baseline for Question Classification on TRECvn dataset (91.8% to 94.2% accuracy).		
June 2015 – September 2015	Ecole Polytechnique de Montreal	Educational Data Mining (EDM)
<ul style="list-style-type: none">• Build computational graph as an open sourced <u>R package</u> for educational data synthesis.• Automate learning parameters and generating new data under 11 <i>standard models of EDM</i>.		

Open-sourced Projects

December 2015 – May 2016	<u>Educational Data Synthesizer</u>	R (Statistical Computing Language)
<ul style="list-style-type: none">• Extended package: allow customize built-in models, add new nodes/ interactions/ models to the graph.		
August 2016 – present (on going)	<u>Darkflow</u> ★ 161 🍴 49	Python, Tensorflow
<ul style="list-style-type: none">• Designing deep nets in text format, train and <i>freeze the graph</i> for production.• Compatible with <u>Darknet</u> framework: load / partial load / selectively extract binary weights.• Current working models: YOLO and YOLO9000 (state of the art real-time object detection and classification).• Selected as an <u>Awesome Tensorflow</u> repository.		
January 2017 – present (on going)	<u>Essence</u> ★ 26 🍴 5	C, Numpy
<ul style="list-style-type: none">• Directed Acyclic computational Graph constructor built from scratch, with auto differentiation.• Notable demos: LeNet with BatchNorm, Deep Q-Learning for inverted pendulum control, Visual Question Answering with VGG16 and stack-3 LSTMs on GLOVE features, Neural Turing Machine for copying task.• Working optimizers: SGD, RMSProp and ADAptive Momentum estimator.• A selected coding project on <u>A Wild Week in A.I.</u> newsletter (issue 35).		

Honor and Awards

2016	Wilmar CLV's top 24 students to present at Project presentation round (top 15%)
2016	Asian Undergraduate Summit on Smart City (Singapore) – 10 selected students from Vietnam National University System of <i>7 member universities</i> .
2016	Japan Student Services Organization (JASSO) Scholarship for Research (top 10%)
2015	America Chamber of Commerce (AmCham Vietnam) scholarship (top 12%)
2015	Mitacs Globalink Research Full Scholarship (top 7%)
2015	International Student Festival in Trondheim – Vietnamese Delegate International Student Week in Ilmenau – Vietnamese Delegate
2014	Full Scholarship for First Ranked Student with Highest GPA of 2013 - 2014
2014	<i>Your Online Learning Assistant's</i> Full Scholarship for academic excellence.
2013	Full Scholarship, University Entrance Valedictorian
2012	Southern Vietnam Mathematics Olympiad Medalist