

Trinh Hoang Trieu

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Employment

July 2017 – July 2018	Google Brain	Machine Learning/Deep Learning
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Education

October 2013 – May 2017	Bachelor of Science, Advanced Program in Computer Science	Ho Chi Minh University of Science, Vietnam National University (VNU)
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Research/Development Internships

May 2016 – July 2016	Misfit Wearables Inc.	Deep Learning for Computer Vision
<ul style="list-style-type: none">• Work with Tensorflow, Caffe; bring models onto mobile devices.• Develop iDevices (Objective C++) apps: Face/Stranger recognition, office objects detection and classification.		
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 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 synthesize data under 11 <i>models of EDM</i>.• Extended package: allow customize built-in models, add new nodes/ interactions/ models to the graph.		

Open-sourced Projects

August 2016 – present (on going)	<u>Darkflow</u> (★1k+)	Python, Tensorflow
<ul style="list-style-type: none">• A tensorflow port of <u>Darknet</u> framework, compatible with darknet's binary weights.• Load, partial load for transfer learning, train new networks, camera demo, export protobuf graph.• Used in <u>Tensorflow's Android demo</u>, <u>Udacity's self-driving car</u> course, an <u>Awesome Tensorflow</u> repository.		
January 2017 – April 2017	<u>Essence</u>	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, Neural Turing Machine for copying task. Optimizers: SGD, RMSProp and ADaptive Momentum.• A selected coding project on <u>A Wild Week in A.I.</u> newsletter (issue 35).		

Honor and Awards

2016	Japan Student Services Organization (JASSO) Scholarship for Research student, AUS 2016 Vietnamese Delegate.
2015	Mitacs Globalink Research Scholarship, AmCham Honorable Mentions, ISFiT and ISWI Vietnamese Delegate.
2014	Full Scholarship for First Ranked Student with Highest GPA of 2013 – 2014 .
2013	Full Scholarship, University Entrance Valedictorian , YOLA's Full Scholarship.
2012	Southern Vietnam Mathematics Olympiad Medalist