

# Trinh Hoang Trieu

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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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## Employment

July 2017 – July 2018	Google Brain (Research Resident)	Machine Learning/Deep Learning
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## Research/Development Internships

May 2016 – July 2016	Misfit Wearables Inc.	Deep Learning for <b>Computer Vision</b>
<ul style="list-style-type: none"><li>• Work with <b>Tensorflow</b>, <b>Caffe</b>; <b>bring models onto mobile devices</b>.</li><li>• Develop iDevices (Objective C++) apps: Face/Stranger recognition, office objects detection and classification.</li></ul>		
January 2016 – March 2016	Japan Advanced Institute of Science and Technology	Deep Learning for <b>Natural Language Processing</b>
<ul style="list-style-type: none"><li>• Translate <b>Theano code to Tensorflow</b>, experimented: <i>LSTM</i>, <i>GRU</i>, <i>CNN - LSTM</i> on Word2vec embeddings.</li><li>• <b>Improved</b> Convolutional baseline for Question Classification on TRECvn dataset (91.8% to 94.2% accuracy).</li></ul>		
June 2015 – September 2015	Ecole Polytechnique de Montreal	<b>Educational Data Mining (EDM)</b>
<ul style="list-style-type: none"><li>• <b>Build computational graph</b> as an open sourced <u>R package</u> for educational data synthesis.</li><li>• Automate learning parameters and synthesize data under 11 <i>models of EDM</i>.</li><li>• <b>Extended</b> package: allow customize built-in models, add new nodes/ interactions/ models to the graph.</li></ul>		

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## Open-sourced Projects

August 2016 – present (on going)	<u>Darkflow</u>	<b>Python, Tensorflow</b>
<ul style="list-style-type: none"><li>• A tensorflow port of <u>Darknet</u> framework, compatible with darknet's binary weights.</li><li>• Load, partial load for transfer learning, train new networks, camera demo, export protobuf graph.</li><li>• Used in <u>Tensorflow's Android demo</u>, <u>Udacity's self-driving car</u> course, an <u>Awesome Tensorflow</u> repository.</li></ul>		
January 2017 – April 2017	<u>Essence</u>	<b>C, Numpy</b>
<ul style="list-style-type: none"><li>• Directed Acyclic computational <b>Graph constructor built from scratch</b>, with <b>auto differentiation</b>.</li><li>• Notable demos: LeNet with BatchNorm, <b>Deep Q-Learning</b> for inverted pendulum control, <b>Neural Turing Machine</b> for copying task. Optimizers: SGD, RMSProp and ADaptive Momentum estimator.</li><li>• A selected coding project on <u><b>A Wild Week in A.I.</b> newsletter (issue 35)</u>.</li></ul>		

## Honor and Awards

2016	Japan Student Services Organization (JASSO) Scholarship for Research student.
2015	Mitacs Globalink Research Scholarship, AmCham Honorable Mentions.
2014	Full Scholarship for <b>First Ranked Student with Highest GPA of 2013 - 2014</b>
2013	Full Scholarship, University Entrance <b>Valedictorian</b> , YOLO's Full Scholarship.
2012	Southern Vietnam <b>Mathematics Olympiad Medalist</b>