

Trinh Hoang Trieu

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Employment

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

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| 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

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| 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

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| August 2016 – present (on going) | <u>Darkflow</u> ★ 679 🍴 249 | 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. newsletter (issue 35)</u>. | | |

Honor and Awards

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| 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 |