Trinh Hoang Trieu

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Education

2013 – present, GPA: 3.90 (May 2016)	Bachelor of Science, Advanced Program in Computer Science	Ho Chi Minh University of Science Vietnam National University
	Research Internships	
May 2016 – July 2016	Misfit Wearables Inc.	Deep Learning for Machine Vision
Work with Tensorflow, Car	ffe, bring Deep Learning models onto mobile	devices.
January 2016 – March 2016	Japan Advanced Institute of Science and Technology	Deep Learning for Natural Language Processing
 Implemented: Long Short ' Mikolov's Word2vec ember 	code to Tensorflow, experiment recurrent mod Term Memory, Gated Recurrent Unit, CNN - I eddings. Lional baseline for Question Classification on	LSTM with Tensorflow on top of
June 2015 – September 2015	Ecole Polytechnique de Montreal	Educational Data Mining (EDM)
	ph as an open sourced <u>R package</u> to perform e ters and generating new data under 11 <i>standa</i>	•

Open-sourced Projects

December 2015 – May 2016

Educational Data Synthesizer

R (Statistical Computing Language)

Extended package, allow customize built-in models and adding new nodes/interactions/models to the graph.

August 2016 – present (on going)

Darkflow

Python, Tensorflow

- Allows designing the deep net in text format, training and freezing the graph for production environment.
- 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 **Awesome Tensorflow** repository.

January 2017 – present (on going)

Essence

C, Numpy

- Directed Acyclic computational Graph constructor built from scratch, with auto differentiation.
- Notable demos: LeNet with Batch-Normalization, LSTM on word embeddings for question classification, Deep
 Q-Learning for inverted pendulum controlling, Visual Question Answering with VGG16 and stack-3 LSTM
 features, Neural Turing Machine for copying task.
- Working optimizers: vanilla Stochastic Gradient Descent, RMSProp and ADAptive Momentum estimator.
- A selected coding project on <u>A Wild Week in A.I.</u> newsletter (issue 35).

Honor, Awards, and Scholarships

2016	Wilmar CLV's top 24 students to present at Project presentation round (top 15%)
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%)
2014	Full Scholarship for First Ranked Student with Highest GPA of 2013 - 2014
2013	Full Scholarship, University Entrance Valedictorian
2012	Southern Vietnam Mathematics Olympiad Medalist