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 (VNU)

Research Internships

May 2016 – July 2016	Misfit Wearables Inc.	Deep Learning for **Computer Vision**

- 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**

- Translate **Theano code to Tensorflow.**
- Experimented: *LSTM, GRU, CNN - LSTM* 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)**

- **Build computational graph** as an open sourced <u>R package</u> for educational data synthesis.
- Automate learning parameters and generating new data under 11 *standard models of EDM*.

Open-sourced Projects

December 2015 – May 2016	<u>Educational Data Synthesizer</u>	**R (Statistical Computing Language)**

- **Extended** package: allow customize built-in models, add new nodes/ interactions/ models to the graph.

August 2016 – present (on going)	<u>Darkflow</u> ★ 180 ⑂ 51	**Python, Tensorflow**

- Designing deep nets in text format, train and *freeze the graph* for production.
- Compatible with <u>Darknet</u> framework: load / partial load / selectively extract binary weights.
- Freezed graph used to produce **<u>Tensorflow's official Android demo</u>** with *YOLO9000* detections.
- Selected as an **Awesome Tensorflow** repository.

January 2017 – present (on going)	<u>Essence</u> ★ 29 ⑂ 8	**C, Numpy**

- 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 *7 member universities.*
2016	Japan Student Services Organization (JASSO) Scholarship for Research student.
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**
2014	*Your Online Learning Assistant (YOLA)*'s Full Scholarship (**top 1%**)
2013	Full Scholarship, University Entrance **Valedictorian**
2012	Southern Vietnam **Mathematics Olympiad Medalist**