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)

Employment

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

Research/Development Internships

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

- Work with **Tensorflow, Caffe; bring models onto mobile devices.**
- Develope 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**

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

- **Build computational graph** as an open sourced R package for educational data synthesis.
- Automate learning parameters and synthesize data under 11 *models of EDM*.
- **Extended** package: allow customize built-in models, add new nodes/ interactions/ models to the graph.

Open-sourced Projects

August 2016 – present (on going) — Darkflow ★ 679 ⑂ 249 — **Python, Tensorflow**

- A tensorflow port of Darknet framework, compatible with darknet's binary weights.
- Load, partial load for transfer learning, train new networks, camera demo, export protobuf graph.
- Used in **Tensorflow's Android demo**, **Udacity's self-driving car** course, an **Awesome Tensorflow** repository.

January 2017 – April 2017 — Essence — **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, **Neural Turing Machine** for copying task. Optimizers: SGD, RMSProp and ADAptive Momentum estimator.
- A selected coding project on **A Wild Week in A.I.** newsletter (issue 35).

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 **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**