**Dan Hieu Le**

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| **EDUCATION** |

**University of Massachusetts Amherst Amherst, MA**

*B.S. in Computer Science and B.S in Mathematics (Statistics)* | **GPA:** 4.0/4.0 *Sept 2019 - May 2023*

* Relevant Coursework: Programming with Data Structures, Multivariable Calculus, Linear Algebra

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| **EXPERIENCE** |

**Google LLC Virtual internship**

***STEP Intern (Fullstack developer)*** *May 2020 - August 2020*

* Collaborated with 2 other interns to design and build [**ZED**](https://github.com/googleinterns/step98-2020), an interactive travel planning assistant.
* Designed, implemented, and tested complex features such as suggesting activities tailored to user preferences, dragging and dropping events, detecting user’s availability on clicking in the schedule.
* Utilized *React* and *Material-UI* to build a neat and eye-catching user interface.
* Utilized *Promise* to handle asynchronous code on communicating with *APIs* and *Firebase*.

**Tech stack:** React, Javascript, Material-UI, Firebase, Google Maps APIs, and Google App Engine

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| **PROJECTS** |

**Machine Learning Projects**

[***Face Generator Neural Net (Pytorch)***](https://github.com/hieudan225/deepLearning/blob/master/dlnd_face_generation/dlnd_face_generation.ipynb)

A Deep Convolutional Generative Adversarial Net which generated realistic-looking human faces.

* Learned and applied Batch Normalization and Transposed Convolution Layer.

[***Dog Breeds Classifier (Pytorch)***](https://github.com/hieudan225/deepLearning/blob/master/dog_project/dog_project/dog_app.ipynb)

A Convolutional Neural Net which classified 133 dog breeds with an accuracy of 64% on the test set.

* Learned and applied Transfer Learning, Residual Net, data augmentation, dropout, weight initialization, and regularization techniques.

[***TV Script Generator (Pytorch)***](https://github.com/hieudan225/deepLearning/blob/master/tv_script_generation/dlnd_tv_script_generation.ipynb)

A Recurrent Neural Net with LSTM which generated creative English TV Scripts.

* Used word embeddings, and learned about how Attention resolves the inefficiency of pure RNN.

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| **PUBLICATIONS** |

*Michael Boratko, Xiang Lorraine Li, Rajarshi Das, Tim O'Gorman, Dan Le, Andrew McCallum*.

[ProtoQA](https://arxiv.org/abs/2005.00771): A Question Answering Dataset for Prototypical Common-Sense Reasoning. In submission, 2020.

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| **SKILLS** |

* **Programming Languages:** Python, Java, JavaScript
* **Technologies:** Pytorch, Pandas, Numpy, React, Material UI, Firebase, Firestore, HTML5/CSS
* **Online Courses**: [**Deep Learning Nanodegree**](https://graduation.udacity.com/confirm/HHHD3CA9) (Udacity)

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| **ACHIEVEMENTS AND AWARDS** |

**University of Massachusetts Amherst Chancellor’s Award** *2019*

* Entrance scholarship awarded to international students with outstanding academic achievements

**Lawrence S. Ting High School Scholarship for Best Academic Achievement** *2015 - 2018*

* Awarded to the student with the highest academic achievements (six-time recipient)

**Canadian Senior Mathematics Contest -** *ranked 45th out of 12,598 contestants**2018*