

# Dan Hieu Le

hieudan225@gmail.com | 413-433-7030 | Github: [hieudan225](#)

## 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

## EXPERIENCE

**Google LLC**

**Virtual internship**

*STEP Intern (Fullstack developer)*

*May 2020 - August 2020*

- Collaborated with 2 other interns to design and build [ZED](#), 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

## PROJECTS

**Machine Learning Projects**

[Face Generator Neural Net \(Pytorch\)](#)

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

- Learned and applied Batch Normalization and Transposed Convolution Layer.

[Dog Breeds Classifier \(Pytorch\)](#)

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 \(Pytorch\)](#)

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.

## PUBLICATIONS

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

[ProtoQA](#): A Question Answering Dataset for Prototypical Common-Sense Reasoning. In submission, 2020.

## SKILLS

- **Programming Languages:** Python, Java, JavaScript
- **Technologies:** Pytorch, Pandas, Numpy, React, Material UI, Firebase, Firestore, HTML5/CSS
- **Online Courses:** [Deep Learning Nanodegree](#) (Udacity)

## 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*