Dan Tran

Contact Information:

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Education

University of Washington *Graduated on 06/2019*

- Master of Science Degree
- Cumulative GPA: 3.92
- Magna Cum Laude
- Computer Science Major
- Clarinetist in the UW Symphonic Band

Selected Coursework:

- CSE 546: Machine Learning
- CSE 599 G1: Intro to Deep Learning
- CSE 547: Natural Language Processing
- CSE 481: NLP Capstone

Skills

- Proficient in Python, C++, and C with learning frameworks like PyTorch, Keras, AllenNLP, etc.
- Expertise in machine learning techniques from model design to hyperparameter tuning.
- Experience with deep neural networks and advanced components like ELMO and BERT.
- Knowledgeable in a wide domain from image classification to visual question and answering.
- Detail orientated, well organized, and productive in individual and team-based settings.

Work Experience

Software Development Engineer, Microsoft Cloud + AI *08/2019 – Present*

- Maintained tooling to track and display security vulnerabilities for Azure Boost.
- Created model to process advisories and bug reports to classify potential patches.
- Developed infrastructure to automate patching of underlying distro and report metrics.

Software Development Engineer Intern, Amazon Web Services *06/2018 – 09/2018*

- Expanded platform services to include metadata on installed software.
- Developed automatic retrieval of package information from the repository.
- Helped with automatic documentation generation and migration to Amazon Linux 2.

Software Developer Intern, ViaSat *06/2017 – 09/2017*

- Email product horribly outdated, received complaints from customers like NATO.
- Redesigned GUI, fixed driver related bugs, and improved support for FTP and POP3.
- Renovated application now fits customer criteria and is pleasing and easy to use.

Projects

NLVR^2 with Specialized Module Networks

- NLVR^2 task asks to evaluate a caption associated with two images as visual input.
- Trained model using specialized modules of object detection, semantic parsing, etc.
- Achieved results comparable to state-of-the-art at the time with limited resources.

Van Gogh Classifier *https://github.com/Dan-Tran/van-gogh-classifier*

- A classifier that labels paintings as being painted by Vincent van Gogh or not.
- Utilizes a CNN with an Adam optimizer and ReLU activation in Keras and TensorFlow.

Tor61

- A simplified Tor network that routes traffic through nodes before reaching the web server.
- Applied multithreaded request handling and networking in circuit creation and routing.

UW Pathfinder *https://github.com/Dan-Tran/UW-Pathfinder*

- A simple application that finds the shortest path from building to building at UW.
- Applied custom encapsulated data structures, algorithms, and graphical user interfaces.

Volunteer and Leadership Experience

Chair, ASUW Senate Committee on Academic and Administrative Affairs *06/2016 – 06/2017*

- Led committee meetings and scrutinize legislation impacting the university.
- Created new legislation to improve the university's academic functions.

Leader-in-Training, Olympia Buddhist Youth Association *11/2008 – 09/2015*

- Directed youth activities, setup and initiated outdoor games for members.
- Managed the cultural Lion Dance Team. Led rehearsals and performances.