

# 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
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## 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.
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## 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- Email product horribly outdated, received complaints from customers like NATO.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.
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## Projects

*NLVR<sup>2</sup> with Specialized Module Networks*

- NLVR<sup>2</sup> 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.
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## 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.