# Max Tran

maxtran3005@gmail.com| (206) 886-7889 | Seattle, WA | github.com/Maxtran96

## SKILLS

**Web & Mobile**: Java, JavaScript, React, Node, Express, SQL, C++, Docker, Flask, MongoDB, AWS, Apache Any23
**Machine Learning**: Python, Apache Spark, sk-learn, TensorFlow, Keras, CNN, RNN, PyTorch, Sagemaker, Linux
**Machine Learning libraries**: DeepPavlov, Pythia, chatterbot, WordNet, SimpleNLG, MXNet model server, OpenCV (Familiar) GluonCV, OpenCV, hnswlibs, DrQA

## WORK EXPERIENCE

**CitrusBerry** **Dec. 2018 - Present**
*Machine Learning Engineer intern* *Renton, WA*

- Created a chatbot to answer customers' questions using Chatterbot and botpress and deployed them to Heroku using Docker. Implemented a product description generator using SimpleNLG and WordNet with data crawled from the web using Apache Any23, BeautifulSoup and Scrapy.
- Created a visual search service using MXNet with React frontend and deployed it to AWS using MXNet model server and Docker. Formatted and trained numerous datasets of size up to **500Gb**

**Nlinks** **Summer 2016**
*Software Engineer intern* *Renton, WA*

- Rapidly developed websites for **5** different clients ranging from small businesses to large nonprofit organizations using **Bootstrap framework**, **jQuery**, and **JavaScript.**
- Researched keywords using **Google Adwords** to improve the site's SEO ranking. Identified trends in web traffic using **Google Analytics** that resulted in an increase of **40%** in unique visitors.

## PROJECTS

Fashion Recommender System | ***MXNet, Python, Anaconda, GluonCV, CNN, SageMaker, hnswlib***

- Created a backend using MXNet and GluonCV that recommends clothing products based on the user's purchase history as well as retrieved Amazon's **50GB** of **1.6M** products dataset.
- Tested the model on AWS SageMaker using hnswlib for the fast K-Nearest Neighbor algorithm.

Facial Recognition | ***TensorFlow, Keras, Numpy, CNN, Glob, Pillow***

- An Android app used to detect whether an object is a human face or not.
- Formatted the dataset and built a computational graph of CNN model using TensorFlow and Keras.
- Trained, tested, and froze the computational graph which resulted in **99.9%** accuracy.

Image Classifier | ***TensorFlow, Keras, CNN***

- An app that helps classify the object the user is looking at using CIFAR10's **60000** dataset.
- Formatted the dataset and built a computational graph of CNN model using Tensorflow and Keras.
- Trained, tested, and froze the graph which resulted in **98%** accuracy and built a UI to display.

## EDUCATION

**University of Washington** **June 2018**
*B.S, Mathematics, Physics* *Seattle, WA*
**Coursework**: Machine Learning, Compiler, Deeplearning, Data Science, Computer Vision, Database, Abstract Linear Algebra, Intro to C/C++ & Memory Management, Algorithms & Data Structures, Probability & Statistics.