

# Peter (CHENG-YU) Lin

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## SUMMARY

Seeking software engineering summer internship for 2020 .  
4+ years in software development and complete 10+ projects in Python.

## EDUCATION

### University of Michigan

M.S. in Computer Science & Engineering

Ann Arbor, MI

Expected Dec.2020

**Relevant Coursework:** AI foundation, Computational Data Science and Machine Learning

### National Taiwan University, NTU

B.S. in Computer Science & Information Engineering      Minor: Economics      GPA: 3.94/4.3

Taipei, Taiwan

Sept.2015 - Jun.2019

## SKILLS

- **Languages:** C/C++(Unix programming), Python, Shell script, Unity, R, Matlab
- **Libraries:** PyTorch, Keras, Scikit-Learn, Numpy, Pandas, OpenCV, OpenCL, OpenGL, CUDA, Hadoop
- **Machine learning:** ResNet, DenseNet, SVM, Random Forest, Regression
- **Natural Language Processing:** Word embeddings, Language models, Bert

## EXPERIENCE

### McKinsey & Company

Design to Value lab Intern

Taipei, Taiwan

Sept.2018 - Jun.2019

- Enhanced the performance of object localization by adapting image segmentation method (Python)
- Improved the image classification with feature selection and support vector machine (Python)
- Constructed an graphic user interface by python and tkinter (Python)

### MiRA (Multimedia indexing, Retrieval, and Analysis) Lab, NTU

Research Student

Taipei, Taiwan

Sept.2017 - Jun.2019

- Trained agents to playing racing games by deep learning with 0.6 F1-score (Pytorch)
- Accelerated process of video object detection by adapting correlation between consecutive images
- Two years experience in machine learning and Computer Vision

### Network Administration Team of CSIE, NTU

Wireless Team Leader

Taipei, Taiwan

Sept.2016 - Jun.2019

- Deployed 80 access points in whole building by using Python script to reset the IP Address
- Set up a FreeRADIUS server from scratch for connection between Ruckus product and LDAP
- Monitored AP signal and users internet connection by combining Python and Ruckus CLI

## COURSE PROJECTS

### Natural Language Processing:

- Identifying and Categorizing Offensive Language in Social Media by BERT (Python)
- Natural Language Inference for Fake News Detection (Python)

Feb.2019 - Jun.2019

### Cognitive Computing:

- Extracted local feature and did feature selection on image retrieval task (Python)
- Hashtag recommendation system based on data from Instagram (Python)

Sept.2018 - Jan.2019

### Virtual Reality:

- Implemented a augmented reality furniture demo app(Unity)

Feb. 2017 - Jun. 2017

### Machine learning :

- Participated in Kaggle competitions (predict effected area of Dengue and housing price in Russia) (Python)
- Image Sentiment Classification by Convolutional neural network (Python)

Feb. 2016 - Jun. 2016

### Psychoinformatics and Neuroinformatics :

- Implemented a system predicts likes and emojis for a post by using NLP model (Python)
- Crawler for Ptt and Dcard to download all the articles and analyze the content (Python)

Feb. 2016 - Jun. 2016