YUYANG (EDDIE) YU

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PROFILE

Graduate student in computer science from University of Washington, with 5+ years of programming experience. Familiar with Machine Learning, Deep Learning, iOS and software development. Skilled and highly familiar with a wide variety of programming languages and techniques. Capable of explaining complex algorithm in pellucid terms.

SKILLS

Proficient with Java, Python, C/C++, Objective-C, Swift, R, MATLAB, SQL, TensorFlow, Keras, MXNet-Gluon, Spark, Hadoop, AWS, IoT, PHP, MySQL, HTML5.

EDUCATION

The University of Washington **Tacoma, WA**
Master of Science in Computer Science and Systems (GPA: 3.90) Expected Mar 2018
- Nominated for Golden Key International Honor Society; Upsilon Pi Epsilon Honor Society.

The University of Liverpool **Liverpool, England**
Bachelor of Science in Internet Computing (Class I: Top 10%) Sep 2014 – Jun 2016

Xi'an Jiaotong - Liverpool University **Suzhou, China**
Bachelor of Science in Information & Computing Science (Class I: Top 10%) Sep 2012 – Jun 2014

RESEARCH PROJECTS

✧ **CIFAR-10 on Kaggle with MXNet (Computer Vision)** **Oct 2017 - Nov 2017**

Goal: Hands on different CNN architectures to identify the subjects of 60,000 labeled images.

- Achieved 95.34% accuracy.
- Earned $200 prize in the Amazon MXNet-Gluon Studying Community.
- Implemented AlexNet, VGG, ResNet, and DenseNet in MXNet-Gluon.
- Launched GPU instances on Amazon AWS and utilized with NVIDIA cuda to speed up the training.

✧ **User Profiling in Facebook (Machine Learning)** **Feb 2017 - May 2017**

Goal: To build a system for auto-recognition of the age, gender and OCEAN personality of Facebook users.

- Used transfer learning with Google Inception-v3 model and applied 2 CNN models in TensorFlow for image.
- Used Python to apply Naïve Bayes classifier and TF-idf based SVM model on text data.
- Applied kNN method, page-user-page model, SVD based LR, and Perceptron NN with Keras on users' likes.
- Achieved the highest accuracy among twenty teams wrt all 3 targets by ensemble learning all 12 classifiers.

✧ **Smart Light System (iOS App + AWS IoT)** **Apr 2017 - May 2017**

Goal: First attempt to intelligent homes. Not only can it auto-control lights, but also managed remotely.

- Employed a PIR motion sensor to automatically control lights under auto mode.
- Programed an iOS app in Swift to remotely control the system via AWS Cognito and AWS-IoT.

✧ **Dementia Patient Monitoring and Care Support (iOS App)** **Jan 2015 - Jan 2016**

Goal: To develop a mobile based app to help both early-stage dementia patients and their caregivers.

- Top-rated final year project of University of Liverpool in 2016, and is recommended to keep in campus library.
- Programed an iOS app in Objective-C with MySQL and PHP based backend.
- Patients would be reminded with daily routine, and completion progress could be checked by caregivers.
- Caregivers could track their patients' real-time location. Patients could use built-in map to navigate themselves.
- Used APNs to enable remote instant communication (notification) under urgent cases.
- Used SQLite locally to ensure robust services and database consistency under poor network connectivity.

INTERNSHIP

Calix Nanjing R&D Office **Nanjing, China**
Software Engineering Intern Jun 2014 – Aug 2014
- Participated in Calix's home gateway management software *Consumer Connect* development.
- Completed several major feature developments, such as Wi-Fi diagnostic attributes display, Gateway parental control and web access scheduling.
- Hands-on working experience in web Cloud software development team.

CERTIFICATES

Neural Networks and Deep Learning by deeplearning.ai on Coursera. Certificate earned on September 1, 2017.
Improving Deep Neural Networks by deeplearning.ai on Coursera. Certificate earned on September 7, 2017.
Structuring Machine Learning Projects by deeplearning.ai on Coursera. Certificate earned on September 14, 2017.