YUYANG (EDDIE) YU

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PROFILE

Graduate student in computer science from the University of Washington, with 6+ years of programming experience. Proficient in software development, data science, machine learning, and deep learning. Skilled and highly familiar with a wide variety of programming languages and tools, with a strong knowledge of algorithms and data structures.

SKILLS

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

EDUCATION

The University of Washington **Tacoma, WA**
Master of Science in Computer Science and Systems (GPA: 3.88) 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 (Independent project) **Oct 2017 - Nov 2017**
Goal: Hands on different CNN architectures to identify the subjects of 60,000 labeled images.
- Earned Top 5 Award in Amazon MXNet Community by implementing AlexNet, VGG, ResNet and DenseNet in MXNet-Gluon, leading to 95.34% ensemble accuracy.
- Reduced training time from days to hours by deploying Amazon AWS GPU instances based on NVIDIA CUDA.

User Profiling in Facebook (Team leader) **Feb 2017 - May 2017**
Goal: To build a system for auto-recognition of the age, gender and OCEAN personality of Facebook users.
- Achieved the highest accuracy among twenty teams w.r.t. all 3 targets by ensemble learning 12 models.
- Used image data by transfer learning Google Inception-V3 and implementing 2 CNN models in TensorFlow.
- Used text data by applying Naïve Bayes and TF-idf based SVM classifiers in Python.
- Used users' likes by implementing KNN, page-user-page, SVD based LR, and a Perceptron NN in Keras.

Smart Light System (Independent project) **Apr 2017 - May 2017**
Goal: First attempt to intelligent homes for fun. Not only can it auto-control lights, but also managed remotely.
- Accomplished a remote light control system by developing a client-side mobile app in Swift and employing AWS Congnito and AWS IoT as server-side.
- Employed PIR motion sensors to automatically control lights under auto mode.

Dementia Patient Monitoring and Care Support (Individual project) **Jan 2015 - Jan 2016**
Goal: To develop a mobile based app to help both early-stage dementia patients and their caregivers.
- Top-rated senior thesis of the University of Liverpool in 2016, and is recommended to keep in campus library.
- Accomplished this project by implementing an iOS app in Objective-C with MySQL and PHP based backend.
- Allowed early-stage dementia patients live at home with daily issue reminder, built-in map navigator, and an instant message system. Enabled caregivers to track patients' daily issue progresses and real-time locations.
- Ensured robust services and database consistency under poor network connectivity by employing local SQLite.

INTERNSHIP

Calix Nanjing R&D Office **Nanjing, China**
Software Engineering Intern **Jun 2014 – Aug 2014**
- Participated in Calix home gateway management software *Consumer Connect* development by implementing several major features from backend, such as Wi-Fi diagnostic attributes display, Gateway parental control and web access scheduling.
- Hands-on working experience in frontend by helping the web UI team to fix bugs and improve compatibility.

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.
Convolutional Neural Networks by deeplearning.ai on Coursera. Certificate earned on January 25, 2018.