Yong **Yuan**

Software Engineer · Security Expert

246-1002, Gwangmyeongmayrouge Apt. 86, Cheongna lime-ro, Seo-gu, Incheon-si, 404-180, Rep. of KOREA

(+0086) 150-2955-2208 | yongyuanstu@gmail.com | yongyuan.name | willard-yuan

Education

University of Chinese Academy of Sciences   *Beijing, China*

B.S. in Signal and Information Processing   *Sep. 2013 - Jul.2016*

Xidian University   *Xi'an, China*

B.S. in Science and Technology of The Electronics Information   *Sep. 2009 - Jul.2013*

Professional Experience

Meituan   *Beijing, China*

Algorithm Engineer   *Dec. 2011 - Feb. 2012*

- Developed a proxy drive smartphone application which connects proxy driver and customer. Implemented overall Android application logic and wrote API server for community service, along with lead engineer who designed bidding protocol on raw socket and implemented API server for bidding.

ETRACKER Team (Student's Start-up)   *Xi'an, China*

Software Engineer & Security Researcher (Compulsory Military Service)   *Oct. 2015 - Jul. 2016*

- Implemented a military cooperation system which is web based real time messenger in Scala on Lift.
- Improved functionality on military command and control system for incident response with Java Servlet.
- Lead engineer on agent-less backtracking system that can discover client device's fingerprint(including public and private IP) independently of the Proxy, VPN and NAT.

Undergraduate Research, OPTical IMagery Analysis and Learning Lab(Prof. Xuelong LI)   *Pohang, S.Korea*

Researcher for <Content Based Image Retrieval>   *Sep. 2013 - Jul. 2016*

- Researched means of retrieving a corresponding video based on image contents using image similarity algorithm.
- Implemented prototype that users can obtain torrent magnet links of corresponding video relevant to an image on web site.

Personal Projects

Undergraduate Research, Computer Vision Lab(Prof. Bohyung Han)   *Pohang, S.Korea*

Researcher for <Detecting video's torrents using image similarity algorithms>   *Sep. 2012 - Feb. 2013*

- Researched means of retrieving a corresponding video based on image contents using image similarity algorithm.
- Implemented prototype that users can obtain torrent magnet links of corresponding video relevant to an image on web site.

Software Maestro (funded by Korea Ministry of Knowledge and Economy)   *Seoul, S.Korea*

DuplicateSearch   *Jul. 2012 - Jun. 2013*

- Extracted SIFT feature descriptor to overcome brigthness variance, rotation variance, translation variance and scale variance.
- Quantized each extracted local feature into one of visual words, and then represent each image with a global feature by histogram of the visual words.
- Built multithreads by openMP to speed up feature extraction and the process of clustering.
- Improved the mean average precision (mAP) by reranking algorithm.

ShitOne Corp. (Start-up company)   *Seoul, S.Korea*

PicSearch Web Application   *Dec. 2011 - Feb. 2012*

- Completed feature extraction offline and made dimensionality reduction.
- Deployed the prototype with the lightweight web development framework CherryPy.
- Optimized the code to make sure it respond to the user's query (milliseconds) in a timely manner.

SAMSUNG Electronics   *S.Korea*

Hashing Baseline for Image Retrieval   *Sep. 2013, Mar. 2011 - Oct. 2011*

- Implemented some hashing methods, note some hashing methods were found at the authors homepages, and inserted them to the framwork.
- Implemented some evaluations for validating the effectiveness of hashing methods, and made the evalua- tions complete.
- Designed and proposed new hashing methods for image retrieval based on the toolbox.

Honors & Awards

2016.4	**Merit Student**,	University of Chinese Academy of Sciences
2014.7	**Best Paper Runner-up Award**,	ACM ICIMCS
2012.11	**National Scholarship**,	Xidian University
2011.11	**The First Prize Scholarship**,	Xidian University
2010.11	**National Scholarship for Encouragement**,	Xidian University

Writing

- Xuelong Li, Yong Yuanand Xiaoqiang Lu, Latent Semantic Minimal Hashing for Image Retrieval. IEEETIP, 2016(MAJOR REVISION)
- Yong Yuan, Xiaoqiang Lu, and Xuelong Li. Learning Hash Functions Using Sparse Reconstruction.ACM ICIMCS, pp. 14-18, 2014 (Best Paper Runner-up Award)