

袁勇

SOFTWARE ENGINEER · SECURITY EXPERT

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"Must be the change that you want to see in the world."

教育背景

中国科学院大学

硕士学位, 信号与信息专业, 保研

- Got a Chun Shin-II Scholarship which is given to promising students in CSE Dept.

Pohang, S.Korea

Mar. 2010 - PRESENT

拥有技能

编程语言 会 C++/C、OpenCV 以及 QT, 熟练 Python, Matlab, 熟悉 HTML, CSS

机器学习 精通 CBIR 技术 (4 年经验), 熟练掌握 SVM、BoF、ANN、哈希等常见机器学习方法, 了解深度学习模型

常用工具 Mac OS、Linux、Git、OpenCV、Xcode、Ipython Notebook、Python web 开发框架 Django

语言 Korean, English, Japanese, Chinese

工作经历

R.O.K Cyber Command, MND

ETRACK 眼控技术

- 负责设计瞳孔检测与瞳孔中心检测算法并用 C++ 实现, 采用 OpenMP 实现多线程实时处理.
- 负责设计瞳孔中心到屏幕的校正方法并用 C++ 实现, 通过安卓 NDK 供 JAVA 调用.
- 负责桌面版本开发, 使用 QT 框架.

Seoul, S.Korea

Aug. 2014 - Exp. Apr. 2016

科研经历

R.O.K Cyber Command, MND

基于内容的图像检索 (CBIR)

- 精通 CBIR 技术及其检索性能指标评价, 熟练掌握了 BoW 词袋模型、SIFT、VLAD、FV 等特征描述子.
- 掌握并积累了机器学习一些常用的降维手段、聚类算法、图像分类方法以及图像物体识别技术.
- 深入研究过基于哈希的大规模图像检索技术, 熟悉近几年来比较流行的哈希方法. 针对一些流行的和经典的哈希方法进行了性能测试和指标评价, 详见 HABIR 工具包主页.

西安

Aug. 2013 - Exp. Apr. 2015

NEXON

基于卷积神经网络的 CBIR 演示原型系统 PicSEARCH

- 线下完成图像特征的提取, 并做了一定的降维处理, 后台在线特征匹配与排序用 python 实现, 服务器采用了 python 轻量级 web 开发框架 CherryPy, 采用 Bootstrap 框架优化前端交互界面
- 图库为包含 29780 张图片的 Caltech-256 公开数据集, 采用特征常驻内存的方式进行了代码的优化, 使其能及时地响应用户的查询请求 (毫秒级), 在线演示地址 PicSearch:search.yongyuan.name (已下线), 本地演示效果: 演示视频

Seoul, S.Korea & LA, U.S.A

Jan. 2013 - Feb. 2013

Undergraduate Research, Computer Vision Lab (Prof. Bohyung Han)

基于词袋模型的物体检索原型 DUPSEARCH

- 在 oxford building 公开数据库上平均检索精度达到 83.35%, 对于光照、旋转、视角等具有较好的适应性, 在线匹配在服务器上能较快的响应查询, 并且在不复杂化现有模型情况下仍有改进提高 mAP 的空间.
- 图像库测试规模达 15 万, 可以获得了很不错的检索效果, 算法原型系统已售予某公司, 15 万衣服库检索示例详见 GitHub, 此外, 对于广告 logo 的搜索也能取得很高的检索精度.

Pohang, S.Korea

Sep. 2012 - Feb. 2013

Software Maestro (funded by Korea Ministry of Knowledge and Economy)

复杂低空飞行的自主避险理论与方法研究

- 负责可见光传感器数据与激光雷达传感器点云数据的融合, 消除高压线检测时的误检.
- 负责桥梁、高压线塔、作为异常目标入侵的滑翔机等危险障碍物的实时检测.
- 使用了 opencv、dlib 等计算机视觉开源库, 非电力线类障碍物检测采用 HOG+SVM 物体检测方法.

Seoul, S.Korea

Jul. 2012 - Jun. 2013

ShitOne Corp. (Start-up company)

SOFTWARE ENGINEER

- 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.

Seoul, S.Korea

Dec. 2011 - Feb. 2012

SAMSUNG Electronics

FREELANCE PENETRATION TESTER

S.Korea

Sep. 2013, Mar. 2011 - Oct. 2011

- Conducted penetration testing on SAMSUNG KNOX, which is solution for enterprise mobile security.
- Conducted penetration testing on SAMSUNG Smart TV.

开源项目

B10S (B1t On the Security, Underground hacker team)

S.Korea

CORE MEMBER

Nov. 2011 - PRESENT

- Gained expertise in penetration testing areas, especially targeted on web application and software.
- Participated on a lot of hacking competition and won a good award.
- Held several hacking competitions non-profit, just for fun.

WiseGuys (Hacking & Security research group)

S.Korea

MEMBER

Jun. 2012 - PRESENT

- Gained expertise in hardware hacking areas from penetration testing on several devices including wireless router, smartphone, CCTV and set-top box.
- Trained wannabe hacker about hacking technique from basic to advanced and ethics for white hackers by hosting annual Hacking Camp.

PoApper (Developers' Network of POSTECH)

Pohang, S.Korea

CORE MEMBER & PRESIDENT AT 2013

Jun. 2010 - PRESENT

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

PLUS (Laboratory for UNIX Security in POSTECH)

Pohang, S.Korea

MEMBER

Sep. 2010 - Oct. 2011

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.

MSSA (Management Strategy Club of POSTECH)

Pohang, S.Korea

MEMBER

Sep. 2013 - PRESENT

- Gained knowledge about several business field like Management, Strategy, Financial and marketing from group study.
- Gained expertise in business strategy areas and insight for various industry from weekly industry analysis session.

荣誉奖励

- 2016.04 三好学生,
2014.07 Best Paper Runner-up Award,
2012.12 优秀学生巡回报告团成员,
2012.11 国家奖学金,
2011.11 校内一等奖学金,
2010.11 国家励志奖学金,

中国科学院大学
Las Vegas, U.S.A
西安电子科技大学
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Presentation

6th CodeEngn (Reverse Engineering Conference)

Seoul, S.Korea

PRESENTER FOR <DEFCON 20TH : THE WAY TO GO TO LAS VEGAS>

Jul. 2012

- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

6th Hacking Camp - S.Korea

S.Korea

PRESENTER FOR <METASPLOIT 101>

Sep. 2012

- Introduced basic procedure for penetration testing and how to use Metasploit

Writing

A Guide for Developers in Start-up

Facebook Page

FOUNDER & WRITER

Jan. 2015 - PRESENT

- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

- Drafted reports about IT trends and Security issues on AhnLab Company magazine.

Program Committees

- | | | |
|------|---|----------------|
| 2013 | Organizer & Co-director , 1st POSTECH Hackathon | <i>S.Korea</i> |
| 2012 | Staff , 7th Hacking Camp | <i>S.Korea</i> |
| 2012 | Problem Writer , 1st Hoseo University Teenager Hacking Competition | <i>S.Korea</i> |
| 2012 | Staff & Problem Writer , JFF(Just for Fun) Hacking Competition | <i>S.Korea</i> |