

Terrance Oey

ECONOMIST · DATA SCIENTIST · DATA ENGINEER

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Skills

- Programming** Python, R/Studio, SQL, SAS, Databricks, Tableau, Power Bi, Matlab, Stata, EViews
Machine Learning (Random Forest, Decision Tree, Neural Network, Natural Language Processing, Grid Search,
Modeling Logistic/Multi-linear Regression), Optimization, Genetic Algorithm, Forecasting (Holt-Winters, ARIMA), Static/Dynamic
Discrete Choice, Simulation
Software Microsoft Office Suite, Git, TFS/Azure DevOps, Linux, LaTeX

Experience

Federal Deposit Insurance Corporation

Arlington, VA

FINANCIAL ANALYST (DATA ENGINEER) (CG-14)

January 2022 - Present

- RIS, SOD
- Consolidated several SAS files into a single SQL statement and slapped a Power Bi dashboard on top, which consolidated many reports; centralized the reports
- Primary on Risk Related Premium (RRP) data.

United States Citizenship and Immigration Services

Camp Spring, MD

MANAGEMENT AND PROGRAM ANALYST (GS-14)

March 2019 - January 2022

- historical processing times
- current processing times
- updated the more info webpage
- data reports.

Social Security Administration

Woodlawn, MD

ECONOMIST (GS-13)

November 2015 - March 2019

- 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.

Summit Consulting LLC

Washington, D.C.

SENIOR ANALYST

June 2014 - October 2015

- Performed research memory management strategies of OS and implemented in Python an interactive simulator for Linux kernel memory management.

The University of Chicago

Chicago, IL

THE ECONOMIC RESEARCH GROUP – RESEARCH ASSISTANT

June 2007 - June 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.
- An Analysis of the Memphis Nurse-Family Partnership Program
- Handbook of Personality Psychology and Economics
- The Myth of Achievement Tests

Cisco-Linksys

Irvine, CA

REVERSE LOGISTICS INTERN

June 2006 - September 2006

- 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.

Education

Johns Hopkins University

Baltimore, MD

M.A. IN ECONOMICS

August 2012 - June 2014

- Received the Professor Joel Dean Undergraduate Teaching Award.

The University of Chicago

B.S. IN ECONOMICS

Chicago, IL

October 2005 - June 2009

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

Extracurricular Activity

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.

Honors & Awards

2022	USCIS-CIS Ombudsman Customer Service Working Group , Citizenship and Immigration Services Ombudsman	Camp Spring, MD
2013	Silver Prize , KISA HDCON Hacking Competition Final	Seoul, S.Korea
2013	2nd Award , HUST Hacking Festival	S.Korea
2010	3rd Award , HUST Hacking Festival	S.Korea
2012	3rd Award , Holyshield 3rd Hacking Festival	S.Korea
2011	2nd Award , Holyshield 3rd Hacking Festival	S.Korea
2011	5th Place , PADOCON Hacking Competition Final	Seoul, S.Korea

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.

AhnLab

UNDERGRADUATE STUDENT REPORTER

S.Korea

Oct. 2012 - Jul. 2013

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

Program Committees

2013 **Organizer & Co-director**, 1st POSTECH Hackathon

S.Korea

2012 **Staff**, 7th Hacking Camp

S.Korea

2012 **Problem Writer**, 1st Hoseo University Teenager Hacking Competition

S.Korea

2012 **Staff & Problem Writer**, JFF(Just for Fun) Hacking Competition

S.Korea