

Hsuan Ya (Michael) Tsai

10555 Main St. Apt. 104, Bellevue, WA, 98004

+1(206)-288-9769

aya80904@gmail.com | hsuanyat@usc.edu

WORK EXPERIENCE

MICROSOFT

Software Engineer II

*Apr. 2019-Present
Redmond, US*

- Azure Networking - Host Networking
 - Building, testing and deploying networking acceleration on Azure public cloud
 - Enabled Accelerated Networking for new Hardware SKU/VM SKU
 - Developed Mellanox NIC Qualifying Framework [*python/powershell*]
 - Developed Network Management Agent/NIC Agent for networking module servicing workflow [*C++*]
 - Orchestrated cluster validation/cluster-wise mitigation/health check

MICROSOFT

Software Engineer II

*Nov. 2017-Apr. 2019
Shanghai, China*

- Designed and Developed Protocol Test Suites [*C#*]
 - Validated and aligned interoperability behaviors for new Windows releases or updates
 - Enhanced test tools and scripts [*C#/Powershell*]
- Utilized Continuous Integration [*Jenkins*]
 - Strengthened Jenkins by introducing Jenkins Pipeline/jenkinsfile
- Performed Document Review and Overview Document Testing for Open Specification in MSDN

DELL INC.

Sr. Software Engineer

*Aug. 2017-Oct. 2017
Taipei, Taiwan*

- Designed and developed software solutions in Alienware gaming PCs [*C/C++/C#*]

TREND MICRO INC.

Project Lead/Sr. Software Engineer

*Jan. 2015-Aug. 2017
Taipei, Taiwan*

- Led a team of 5 people to manage and operate a network engine team to discover Advanced Threats and Target Attacks [*C*]/[*Linux*]
 - Drove Deep Packet Inspection for OSI layer 2/3/4 protocols (TCP/UDP/ICMP/IP/HTTP/etc.)
 - Designed networking-related features
 - Customized IP, FQDN and URL rules for blacklist/whitelist
 - Packet filter to filter out packets with specified IP-port pair requested by NEC Technologies
 - Packet Capture to assist and support network forensic
 - Developed DSL operators for real-time threat detection operation team [*lex/yacc*]
 - Designed and improved test tools and build/UT scripts [*C/Python/Perl/gtest/C++*]

TREND MICRO INC.

Software Engineer

*Apr. 2012-Jan. 2015
Taipei, Taiwan*

EDUCATIONAL BACKGROUND

UNIVERSITY OF SOUTHERN CALIFORNIA

Master of Science in Computer Science (General)

*Sep 2010-Dec 2011
Los Angeles, CA*

- Attended in Non-thesis program

NATIONAL CHIAO TUNG UNIVERSITY

Master of Science in Computer Science

*Sep 2007-Jul 2009
Hsinchu, Taiwan*

- Thesis topic: The Design of a P2P Live and Time-Shift Streaming System

NATIONAL CHIAO TUNG UNIVERSITY

Bachelor of Science in Computer Science

*Sep 2002-Jun 2007
Hsinchu, Taiwan*

- GPA 3.70 (26/207)