Hsuan Ya (Michael) Tsai

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WORK EXPERIENCE

MICROSOFT
Software Engineer II

Apr. 2019-Present
Redmond, US

- Azure Networking Host Networking
 - o Building, testing and deploying networking acceleration on Azure public cloud
 - Designed and developed Mellanox NIC Qualifying Framework [python/powershell]
 - Performed functional, performance and servicing testing for Mellanox NIC
 - Designed and developed Network Management Agent/NIC Agent for networking module servicing workflow [C++]

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
 - Top contributor in Protocol Test Suites GitHub repository
 - https://github.com/Microsoft/WindowsProtocolTestSuites/graphs/contributors
 - Improved test tools and build/test/automation scripts [C#/Powershell]
- Utilized Continuous Integration [Jenkins]
 - O Upgraded Jenkins from HTTP to HTTPS, on-premises to Azure
 - O Strengthened Jenkins by introducing Jenkins Pipeline/jenkinsfile
- Performed Document Review and Overview Document Testing for Open Specification in MSDN
- Represented Microsoft in Interop Dev Events

DELL INC.
Aug. 2017-Oct. 2017
Sr. Software Engineer
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]
 - o Drove Deep Packet Inspection for OSI layer 2/3/4 protocols (TCP/UDP/ICMP/IP/HTTP/etc.)
 - o 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
 - Designed and developed DSL operators for real-time threat detection operation team [lex/yacc]
 - O Designed and improved test tools and build/UT script [C/Python/Perl]
 - O Automated Unit tests for all exported APIs and end-to-end scenarios [gtest/C++]

TREND MICRO INC.

Software Engineer

Apr. 2012-Jan. 2015
Taipei, Taiwan

EDUCATIONAL BACKGROUND

UNIVERSITY OF SOUTHERN CALIFORNIASep 2010-Dec 2011Master of Science in Computer Science (General)Los Angeles, CA

• Attended in Non-thesis program

NATIONAL CHIAO TUNG UNIVERSITY

Master of Science in Computer Science

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)