Hsuan Ya (Michael) Tsai

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WORK EXPERIENCE

MICROSOFT   *Sep. 2021-Present*
Senior Software Engineer   *Redmond, US*
- Azure Core Compute - Host Networking
  - Building, testing and deploying networking acceleration on Azure public cloud

MICROSOFT   *Apr. 2019-Aug. 2021*
Software Engineer II   *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   *Nov. 2017-Apr. 2019*
Software Engineer II   *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.   *Aug. 2017-Oct. 2017*
Sr. Software Engineer   *Taipei, Taiwan*
- Designed and developed software solutions in Alienware gaming PCs *[C/C++/C#]*

TREND MICRO INC.   *Jan. 2015-Aug. 2017*
Project Lead/Sr. Software Engineer   *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.   *Apr. 2012-Jan. 2015*
Software Engineer   *Taipei, Taiwan*

EDUCATIONAL BACKGROUND

UNIVERSITY OF SOUTHERN CALIFORNIA   *Sep 2010-Dec 2011*
Master of Science in Computer Science (General)   *Los Angeles, CA*
- Attended in Non-thesis program.

NATIONAL CHIAO TUNG UNIVERSITY   *Sep 2007-Jul 2009*
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   *Sep 2002-Jun 2007*
Bachelor of Science in Computer Science   *Hsinchu, Taiwan*
- GPA 3.70 (26/207)