

Objective

Seek a web-based engineering position engaged with networking technology.

Skills

- **Programming:** Java, Android, Python, C, C++, Shell Script, MATLAB, Bash, GDB
- **Network:** Wi-Fi, TCP/IP, Wireshark, NS2, EXata,
- **System & Tools:** AWS EC2, Heroku, Git, Cloud9, OpenStack, Linux, Vagrant
- **Web:** HTML, CSS, Bootstrap, JavaScript, jQuery, Node.js, Express, MongoDB, MySQL, SQLite
- **Language:** Mandarin, English, Japanese (N1), Taiwanese

Experiences

Go-to-market strategy consultant **Flash Storage Strategy Department, Toshiba Memory Corporation @ Japan** 2017.07 – Present

- Develop and implement go-to-market strategy for NVMeoF storage software targeting at data center, with estimation 60M USD revenue potential within two years
 - Coordinate cross functional teams to identify potential system partner and customer, translate insight into product development and PoC evaluation, and get customer buy-in.
 - Develop commercialization plan including pricing, licensing, supporting, legal issues, and product launching.
 - Establish and show the demo system in exhibitions as well as for customer's PoC evaluation ; educate the users the architecture, configuration and operation of the software.

Software Research Engineer **Memory Research Center, Toshiba Memory Corporation @ Japan** 2013.11 – 2017.07

- Workload analysis for NVM (non-volatile memory) [1 yr]
 - Build benchmark toolkit based on NVM Library; benchmark the performance in application layer, e.g. RDBMS, NoSQL database, and the proprietary toolkit, with different memory access paths.
- Multicast-Multihop-based Wi-Fi content sharing platform [2.5 yr]
 - Design and implement a platform for content sharing on both single board computer and Android phone.
 - Identify and pitch to strategic partners for joint R&D and scope out economical model for commercialization.
 - Publish patterns and academic papers.

Software Engineer **Android Mobile, ASUS Computer Inc. @ Taiwan** 2012.11 – 2013.10

- Design, implement, test, debug, port features for webkit-based stock browser of Android.
- Design, implement, test, debug, port features for wireless settings of Android, e.g. Wi-Fi, Bluetooth, Wi-Fi Direct and hotspot tethering for various platforms including Qualcomm, MTK, and Intel.

Special Research Student **Asami & Kawahara Lab, The University of Tokyo @ Japan** 2010.10 – 2011.09

- Wireless communication protocols for high speed trains
 - Targeting to construct a wireless communication system for bullet-train (Shinkansen) collaborating with Central Japan Railway Company, I conducted behavior analysis of TCP/UDP traffics, designed and implemented the emulator for the high-speed environment.

Research Assistant **Wireless Mobile Network Lab, National Taiwan University @ Taiwan** 2008.10 – 2010.09

- Accelerometer-assisted adaptive 802.11 for public transportation system
 - Lead a project to design and implement a system utilizing train's acceleration info to enhance rate adaptation, conducted experiments on Taipei MRT to test the performance; it results in throughput gain and energy save.

Selected Publications

- **Yu-Jen Lai**, Youyang Ng, Takeshi Sakoda, Yosuke Bando, Arata Miyamoto, Masahiro Ishiyama, Ken-ichi Maeda, Yusuke Doi, "Real and Simulator Testbeds for Content Dissemination in High-density Large-scale WANET", IEEE Consumer Communications & Networking Conference (CCNC), January 2017 2017.01
- **Yu-Jen Lai**, Wei-Hao Kuo, Wan-Ting Chiu, Hung-Yu Wei, "Accelerometer-Assisted 802.11 Rate Adaptation on Mobile Wi-Fi Access", EURASIP Journal on Wireless Communications and Networking, August 2012 2012.08

Educations

- M.S. in Electrical Engineering graduate institute, National Taiwan University (Wireless Mobile Network Lab) 2008.09 – 2011.09
- Special Research Student in The University of Tokyo (Asami Kawahara Lab) 2010.09 – 2011.08
- B.S. in Electrical Engineering, National Taiwan University 2004.09 – 2008.06