

**Objective**

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

**Skills**

- **Programming:** Java, Android, Python, C, C++, Shell Script, MATLAB
- **Network:** Wi-Fi, TCP/IP, Wireshark, NS2, EXata,
- **System & Tools:** Amazon EC2, Heroku, Git, Cloud9, OpenStack, Bash, Linux, Vagrant, GDB
- **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 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, translating insight into PoC evaluation plan and getting customer buy-in.
    - Develop commercialization plan including pricing, naming, licensing, and support.
    - Establish demo system with engineering team and hardware partner for promoting to potential customers.
- Software Research Engineer** Memory Research Center, Toshiba Memory Corporation @ Japan 2013.11 – Present
- Workload analysis for NVM (non-volatile memory) [1 yr]
    - Build benchmark toolkit based on NVM Library; benchmark application layer performance, 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 R&D 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
    - Led 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; resulted 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 WiFi 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