Yu-Jen Lai (Ian) 賴裕仁

Phone: +81-80-6528-0377
Mail: ian.explore.world@gmail.com
Github: https://github.com/ianlai

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 data centers, with a projected value of 60 M USD in revenue within two years
  - Coordinate cross-functional teams to identify potential system partners and customers, translate insight into product development and PoC evaluation, and receive customer buy-in.
  - Develop commercialization plan including pricing, support, trademark/legal matters, and product launching.
  - Establish and present the demo system in exhibitions to educate the users on the architecture, configuration and operation of the software for customer's PoC evaluation.

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 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