Po-Hsiang Hao (Jonathan)

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EXPERIENCE

Booking.com, Amsterdam, the Netherlands

- **Software Developer** (*Customer Service Innovation - Data Team*), Aug 2017 - Present
  - Full-stack development on the multi-ticketing project
    - Implemented the mechanism for reservation-level tickets
    - Built dashboard for the usage of new UI versus old UI
  - Maintain the data pipeline - from generation to analysis
    - Recover lost data
    - Clean unused data and tables

Mozilla, Taipei, Taiwan

- **Senior Software Engineer** (*Firefox Security Team*), Feb 2017 - Jul 2017
  - Containers project
    - Conducted security/privacy reviews on user data isolation
    - Wrote testcases to ensure user data are properly isolated
  - Fusion project, or previously called the **Tor Uplift** project
    - Achieved *First Party Isolation* using the origin attributes framework in Firefox. The work was later adopted by Tor Browser
    - Uplifted anti-fingerprinting features from Tor Browser
    - Cooperated with engineers of the Tor Project
- **Software Engineer** (*Firefox OS Connectivity Team*), Sep 2014 - Feb 2017
  - New Security Model project
    - Designed a secure way to distribute Firefox OS apps as packages
    - Implemented the signing and verification of app packages
  - Maintained the RTSP module in Firefox OS

Google, Taipei, Taiwan

- **Software Engineer Intern**, Jul 2013 - Sep 2013
  - Made some enhancement to JsCIN, a Chrome extension for Chinese IME,
    - Added features to backup and import CIN tables from Google Drive

Cardinal Blue Software, Taipei, Taiwan

- **Developer Intern**, Jul 2013 - Sep 2013
  - Maintained PicCollage's backend (Ruby on Rails) and internal admin pages

SKILLS

Programming

- C++/JavaScript/Python/Ruby/Haskell/SQL/Linux/Hadoop

Language

- *Chinese* - Native
- *English* - Professional proficiency (TOEIC 990/990)

EDUCATION

National Taiwan University, Taipei, Taiwan

- ‣ *M.S.* in *Electrical Engineering*, 2012 - 2014
    - * Designed and implemented an embedded language in **Haskell**
    - * The compiler generates instructions for a chip specialized for cryptographic computations
- ‣ *B.S.* **Double Major** in *Electrical Engineering* and *Mathematics* (GPA 3.9/4.3), 2008 - 2012
    - * Presedential Award, Fall 2009

MENTIONABLE RECORDS

Programming Contests

- ‣ *Google Code Jam* - Top 500 in 2014, 2016, and 2017
- ‣ *Distributed Code Jam* - Top 500 in 2016 and 2017

Math

- ‣ *International Mathematical Olympiad (IMO)* - Silver Medal in 2008
- ‣ *Asian Pacific Mathematical Olympiad (APMO)* - Bronze Medal in 2007

Bridge

- ‣ *Asian Pacific Bridge Federation Youth Championships, Pairs Event* - 2nd Runner-up in 2013
- ‣ *Asia Bridge Open Congress, Youth Teams* - Winner in 2010
- ‣ *Asian University Bridge Championship* - Runner-up in 2010