Yongming Ding

(+1) 412-209-5646 ⋄ yongmind@andrew.cmu.edu ⋄ www.linkedin.com/in/yongming-ding/

5030 Centre Ave, Room 255 ⋄ Pittsburgh, PA 15213

EDUCATION

Carnegie Mellon University - Information Networking Institute *Pittsburgh, PA*
Master's of Science in Information Technology (Mobility) *Aug. 2018 – May. 2020 (expected)*
- ⋄ GPA: N/A   Scholarship: INI Scholarship
- ⋄ Coursework(*current): Introduction to Computer System (A), Web Application Development*, Storage Systems*

Shanghai Jiao Tong University *Shanghai, China*
Master of Science in Electronic Science and Technology *Sep. 2016 – Mar. 2019 (expected)*
- ⋄ Major GPA: 3.86/4.00   Ranking: 8/116   ⋄ Overall GPA: 3.72/4.00
- ⋄ 1st Prize in 12th China Graduate Electronics Design Contest (Ranked 2nd in more than 100 teams in the final)
- ⋄ 2017 Tang Youshu Scholarship, Shanghai Jiaotong University (4 recipients out of 116 students)

Shanghai Jiao Tong University *Shanghai, China*
Bachelor of Science in Microelectronics *Sep. 2012 – Jun. 2016*
- ⋄ Major GPA: 3.77/4.00   Ranking: 8/50   ⋄ Overall GPA: 3.57/4.00
- ⋄ 2013 & 2014 Scholarship of Academic Excellence (Top 30%), Shanghai Jiao Tong University
- ⋄ 2013 & 2014 Outstanding Student, Shanghai Jiao Tong University
- ⋄ 2nd Prize in Shanghai Region, 2013 National College Student Physics Competition

SKILLS

Technical   Python, C/C++, Django, Bootstrap, HTML/CSS, SQL, Javascript, Vue
Certificates Senior skill level computer programmer (JAVA & ARM), China occupational qualification certificates

PROFESSIONAL EXPERIENCE

Tencent Technology Co., Ltd. *Shanghai, China*
Software Engineering Intern *Apr. 2018 – June 2018*
- ⋄ Participated in developing the lung cancer intelligent screening system, which achieved 95% detection rate.
- ⋄ Responsibilities include screening platform full-stack web development using Django, Vue, and MySQL, debugging, and deployment with Nginx at Fudan University Shanghai Cancer Center.

Ctrip Computer Technology Co., Ltd. *Shanghai, China*
Software Engineering Intern *July 2015 – Dec. 2015*
- ⋄ Constructed "Alert-Subscribe", an alert event subscription system helping operation engineers fix alert events. Completed the back-end job including obtaining alert events, classifying with RegEx and sending notifications.
- ⋄ Built "Prometheus", a web service cluster consumers display platform to show the dependency relationships between clusters. Implemented it independently using Django, Bootstrap, MySQL and Redis.

RESEARCH EXPERIENCE & PROJECTS

C Dynamic Storage Allocator @ CMU ICS course Malloc lab *July 2018*
- ⋄ Implemented a general purpose dynamic storage allocator for C programs using segregated free list with FIFO strategy. Built own version of the *malloc*, *free*, *realloc*, and *calloc* C functions.
- ⋄ By eliminating footers in allocated blocks, decreasing the minimum block size, and setting up special regions of memory for small, fixed-size blocks, achieved a high throughout 16838 Kpos/sec with 71.4% memory utilization.

"Eye of Providence", an Intelligent Monitoring System *May 2017*
- ⋄ Led a group of 4 teammates to build an intelligent classroom monitoring system using face recognition, facial expression detection and speech identification techniques during "Hackathon SJTU 2017".

Short Path Padding Technique Design *July 2016 – Nov. 2017*
- ⋄ Designed and implemented a short path padding software employing integer linear programming method, which supports up to a wide pulse of 1/3 cycle time in pulsed-latch pipelines. Proposed step-by-step based and path group based schemes to reduce 80.9% runtime of the algorithm and used multiple-Vt cells to reduce 52.3% hardware cost.
- ⋄ **Publication**: Yongming Ding, Wei Jin, Guanghui He, Weifeng He. "Short Path Padding with Multiple-Vt cells for Wide-Pulsed-Latch Based Circuits at Ultra-Low Voltage." *IEEE International Conference on ASIC* (2017).