

# Yongming Ding

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## 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
  - ◇ 1<sup>st</sup> Prize in 12th China Graduate Electronics Design Contest (Ranked 2<sup>nd</sup> 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: 3.77/100      Ranking: 8/50      ◇ Overall GPA: 3.57/100
  - ◇ 2013 & 2014 Scholarship of Academic Excellence (Top 30%), Shanghai Jiao Tong University
  - ◇ 2013 & 2014 Outstanding Student, Shanghai Jiao Tong University
  - ◇ 2<sup>nd</sup> 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 throughput 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).