

Yongming Ding

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EDUCATION

CARNEGIE MELLON UNIVERSITY

Information Networking Institute

M.S. in Information Technology (Mobility)

2018.8 – 2020.5 | Pittsburgh, PA

- GPA: 4.0/4.0
- CMU INI Scholarship

SHANGHAI JIAO TONG UNIVERSITY (SJTU)

M.S. in Electronic Science and Technology

2016.9 – 2019.3 | Shanghai, China

- Major GPA: 3.9/4.0 Overall GPA: 3.7/4.0
- SJTU Tang Youshu Scholarship (Top 4%)
- SJTU First-class Academic Graduate Student Scholarship (Top 30%)

B.Eng. in Microelectronics

2012.9 – 2016.6 | Shanghai, China

- Major GPA: 3.8/4.0 Overall GPA: 3.6/4.0
- SJTU Scholarship of Academic Excellence (Top 30%)

PROGRAMMING SKILLS

LANGUAGES:

- Python • C • C++
- HTML/CSS • Javascript • SQL

TECHNOLOGIES:

- Django • Tornado • MySQL • Node.js
- Bootstrap • Element-ui • Vue.js • Git
- TensorFlow • NumPy • Scikit-Learn

COURSEWORK

CMU (*CURRENT)

Introduction to Computer System (A)

Web Application Development*

Storage Systems*

Introduction to Information Security*

Fundamentals of Computer Networks*

SJTU

Operating System (A)

The practice of Operating System (A)

Computer Architecture and Embedded System (A)

Advanced Computer Architecture (A)

Algorithm and Compiler (A)

Machine Learning (A)

WORK EXPERIENCE

TENCENT | SOFTWARE ENGINEERING INTERN

2018.4 – 2018.6 | Shanghai, China

- Worked in YouTu Lab belongs to the Tencent Social-Network-Group(SNG).
- Implemented the web service of an intelligent lung cancer screening system with Django, Vue.js, Element-ui, and MySQL.
- Deployed it with Nginx at Fudan University Shanghai Cancer Center.

CTRIP | SOFTWARE ENGINEERING INTERN

2015.7 – 2015.12 | Shanghai, China

- Worked in Application Management Group of Ctrip Infrastructure Service.
- Constructed an alert subscription system helping DevOps fix alert events.
- Built "Prometheus", a web service cluster consumers display platform.
- Developed the Ajax based front-end with AngularJS and Bootstrap.
- Implemented MVC backend with Django and backend job queue with Celery.

RESEARCH EXPERIENCE & PROJECTS

C DYNAMIC STORAGE ALLOCATOR | MALLOC LAB

2018.7 | 15513 Introduction to Computer System | CMU

- Implemented a dynamic storage allocator (malloc function) for C programs.
- By eliminating footers and decreasing the minimum block size, achieved a high throughput 16838 Kpos/sec with 71.4% memory utilization.

LINEAR PROGRAMMING OPTIMIZATION OF PATH PADDING

2016.7 – 2017.11 | Research Center of Digital Circuit Design & SoC | SJTU

- Developed a short padding software employing integer LP optimization.
- Proposed step-by-step and group based schemes, achieving 5x speedup.

EYE OF PROVIDENCE | AN INTELLIGENT CLASS MONITORING SYSTEM

2017.5 | Hackathon SJTU 2017

- Built a monitoring system which detects sleepy students and records them automatically, using face recognition and facial expression detection.
- Implemented MVC back-end with Tornado and front-end with Semantic UI.

MINIX3 SYSTEM MODIFICATION Operating System | SJTU

- Added a new system call to Minix3.1.8 and customized the scheduling mechanism to allow change priority according to time consumption.
- Modified the C source code, changed Makefile and recompiled Minix kernel.

HONORS AND AWARDS

- 1st Prize in 12th China Graduate Electronics Design Contest
- 3rd Prize in 14th National Post-Graduate Mathematic Contest in Modeling
- 1st Prize in 28th National Olympiad in Physics (Henan Province)

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." 2017 IEEE 12th International Conference on ASIC (ASICON)