Yongming Ding

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EDUCATION

CARNEGIE MELLON UNIVERSITY
M.S. in Information Technology (Mobility)
2018.8 – 2020.5 | Pittsburgh, PA
GPA: N/A

SHANGHAI JIAO TONG UNIVERSITY (SJTU)
M.S. in Electronic Science and Technology
2016.9 – 2019.3 | Shanghai, China
Major GPA: 3.86/4   Overall GPA: 3.72/4

B.Eng. in Microelectronics
2012.9 – 2016.6 | Shanghai, China
Major GPA: 3.77/4   Overall GPA: 3.57/4

PROGRAMMING SKILLS

PROFICIENT:
• Python • C/C++

FAMILIAR:
• HTML/CSS • Javascrip • SQL

TECHNOLOGIES:
• Django • MySQL • Bootstrap • Git

COURSEWORK

CMU (*current)
Introduction to Computer System (A)
Web Application Development*
Storage Systems*
Introduction to Information Security*
Fundamentals of Telecommunications Networks*

SJTU
Computer Architecture and Embedded System (A)
Advanced Computer Architecture (A)
Algorithm and Compiler (A)
C++ Programming (B)
Operating System (A)
The practice of Operating System (A)
Data Structures (B)
Fundamentals of Multimedia (A)
Neural Networks and Machine Learning (A)

WORK EXPERIENCE

TENCENT | Software Engineering Intern
2018.4 - 2018.6 | Shanghai, China
- Working for YouTu Lab belongs to the Tencent Social-Network-Group(SNG).
- Participated in developing the lung cancer intelligent screening system.
- 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 | Software Engineering Intern
2015.7 - 2015.12 | Shanghai, China
- Working for Application Management Group of Ctrip Infrastructure Service.
- Constructed "Alert-Subscribe", an alert event subscription system helping DevOps 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 | Malloc Lab
2018.7 | 15513 Introduction to Computer System | CMU
- 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
2017.5 | Hackathon SJTU 2017
- Led a group of 4 teammates to build an intelligent classroom monitoring system using face recognition, facial expression detection and speech identification techniques.

SHORT PATH PADDING TECHIQUE DESIGN
2016.7 - 2017.11 | Research Center of Digital Circuit Design & SoC | SJTU
- Designed and implemented a short path padding software employing integer linear programming method. Proposed innovative schemes to reduce 80.9% runtime of the algorithm and 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).

HONORS AND AWARDS
- 1st Prize in 12th China Graduate Electronics Design Contest
- 3rd Prize in National Post-Graduate Mathematic Contest in Modeling
- 2nd Prize in Shanghai Region, National College Student Physics Competition
- 1st Prize in National Olympiad in Physics (Henan Province, China)