

Weiqi Feng

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EDUCATION

Shanghai Jiao Tong University, Shanghai, China

- Major in Computer Science and Engineering (GPA: 4.05/4.3, Rank: 2/153) Sep 2017 – Jun 2021

Zhiyuan College, Shanghai Jiao Tong University, Shanghai, China

- Major in Zhiyuan Honors Program of Engineering (Top 5%) Sep 2017 – Jun 2021

Department of Electrical & Computer Engineering, University of Washington, Seattle, USA

- Attend Global Electronic Engineering Program Jul 2018 – Sep 2018

RESEARCH INTEREST

Network Systems, Cloud Computing, Machine Learning, Serverless Computing

RESEARCH EXPERIENCE

Sustainable Architectures and Infrastructure Laboratory, Shanghai Jiao Tong University

- **Research Assistant**, supervised by Professor **Chao Li** Jul 2019 – present

- Serverless Computing for Edge Intelligence

We proposed a platform which deploys network functions and edge data processing functions in the same infrastructure using serverless computing model. And the platform is implemented based on Apache OpenWhisk.

SELECTED PROJECTS

- **JOS Operating System** Mar 2019 – Jun 2019

Based on skeleton code provided by MIT 6.828, I implemented major parts of JOS in an exokernel style. It consists of booting, memory management, user-level environments, preemptive multitasking, file systems and network driver. Also I have read the major source code of xv6 through the process.

- **Android Memory Management** Sep 2018 – Nov 2018

In the first part, I wrote new system calls to map a target process's page table into the current process's address space. Based on that, I implemented VATranslate to get physical address of given virtual address.

In the second part, I modified the Linux Page Replacement Algorithm by adding new variables reflecting page importance.

- **Large-scale legal documents diagnosis** Sep 2019 – Nov 2019

We used GRU(Gated Recurrent Unit) neural network and other rule-based methods to build a platform for legal documents diagnosis.

AWARDS & SCHOLARSHIPS

- RongChang Scholarship (CN ¥30000, Top1%) 2019
- Zhiyuan College Honors Scholarship (CN ¥5000, Top5%) 2017 & 2018 & 2019
- National Scholarship (CN ¥8000, Top 1%) 2018
- Meritorious Winner, MCM/ICM (Problem A) 2018 & 2019
- Zhiyuan College Excellent Scholarship (Class A, CN ¥1000, Top 5%) 2018
- 2nd Prize, China Undergraduate Mathematical Contest in Modeling 2018

TEACHING EXPERIENCE

- **CS154: Data Structure (Honor)** 2020 spring
Teaching Assistant at Shanghai Jiao Tong University
- **CS359: Computer Architecture** 2019 fall
Mooc Teaching Assistant at Shanghai Jiao Tong University

SKILLS

- **Programming Language:** C/C++, Go, Rust, Python, Java
- **Software and framework:** PyTorch, MPI, OpenMP, CUDA, LATEX, Docker, Kubernetes
- **Language:** TOEFL 106 (Reading 29, Speaking 21, Listening 30, Writing 26)
- **Core Courses:**
 - Mathematical Analysis 97/100, Linear Algebra 98/100, Probability and Statistics 100/100,
 - Discrete Mathematics 99/100, Algorithm and Complexity 97/100, Theory of Computation 99/100
 - Operating System 100/100, Operating System Project 100/100, Computer System Architecture 97/100
 - Cloud Computing 98/100, Computer Graphics 95/100, Digital Image Processing 95/100