

Xinyi Pan

SCHOOL OF ELECTRONIC INFORMATION AND ELECTRICAL ENGINEERING

Shanghai Jiao Tong University, P.R. China

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Education

Shanghai Jiao Tong University

B.S. in Computer Science and Engineering

Shanghai, China

Sept. 2019 - Present

- Selected to **ACM Honors Class**, an elite CS program for the top 5% with aspirations in research
- GPA: 87 / 100; Ranking: 13 / 31

Related Course

- Machine Learning
- Mathematical Analysis (H)
- Linear Algebra (H)
- Probability

Research Experience

University of California, San Diego

Undergraduate Researcher advised by [Prof. Jingbo Shang](#)

Shanghai, China

Jul. 2021 - Present

- Currently focusing on fake news detection, especially by combining models with linguistic features and social science findings.

Selected Projects

Mx* Compiler

Assembly Language, Code Generation and Optimization, ANTLR

Java

Jan. 2021 - Jun. 2021

- Coursework of "Compiler Design and Implementation"
- Develop a compiler for C-and-Java-like language (Mx*) to NASM with performance comparable to O1
- Implement optimizations like Aggressive Dead Code Elimination, Constant Propagation and CFG Simplification

RISC-V CPU

Computer Architecture, Five-stage Pipeline, FPGA Programming

Verilog

Nov. 2020 - Dec. 2020

- Coursework of "Computer Architecture"
- Design a standard five-stage pipelined RISC-V CPU that supports RV32I Base Integer Instruction Set V2.0 (2.1-2.7)

Distributed Hash Table

Decentralized Network, SHA-1, RPC, Scalability

Golang

Jul. 2020 - Aug. 2020

- Coursework of "Principle and Practice of Computer Algorithms"
- Implemented a Distributed Hash Table with Chord protocol and designed an encyclopedia application of DHT.

Honors & Awards

Tang Lixin Scholarship (**60 winners each year, SJTU**)

2020

Academic Excellence Scholarship

2020, 2021

Zhiyuan Outstanding Leader Scholarship

2021

Zhiyuan Honors Scholarship

2019, 2020, 2021

Teaching Experience

Teaching Assistant of CS152 Programming

Fall 2020

For ACM Honors Class, SJTU

- Helped students by clarifying concepts and answering questions.
- Designed and tested problems for weekly online quizzes.

Miscellaneous

I have passed the Advanced-level **English Interpretation** Accreditation Examination in 2017, and acted as a volunteer translator in Shanghai Science Association for Young Talents in 2018. I'm also an Amateur Fourth Level **chess player**.

Having accomplished the Basic **First Aid** Training Courses given by the Red Cross (Shanghai Branch), I'm devoted to sharing first aid knowledge and helping those in need.