CHENGTING YU

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EDUCATION

Zhejiang University (ZJU)   *June 2017 - Present*

Dual degree program in Zhejiang University/University of Illinois at Urbana-Champaign Institute

Major: Computer Engineering

Expected Graduation Date: June 2021

B.ENG. in Computer Engineering, Zhejiang University

B.S. in Computer Engineering, University of Illinois at Urbana-Champaign

University of Illinois at Urbana-Champaign (UIUC)   *August 2019 - Dec 2019*

Exchange Student in Department of Electrical and Computer Engineering

Cumulative GPA: 3.83 / 4.0

RESEARCH EXPERIENCE

Data Driven Approach to Investigate into China's Educational Inequality

Advisor: Liangjing Yang   *May 2019 - Present*

· Collected and pre-processed over 10,000 students academic performance data.

· Established a linear model, a DNN, and a tree-based approach, to discover and evaluate the factors lead to China's educational inequality.

PROJECT

Simple Operation System from Sketch   *Oct 2019 - Dec 2019*

· Using x86 based architecture, achieve the paging and segment that allows the virtualization of memory. Implement the basic exception handlers.

· Provide the abstraction of file system, and achiece the basic operations on read and write. Besides, implement the ten basic system calls as well as the hardware drivers for RTC, mouse and keyboard.

· Implement the interaction between user and kernel spaces. Create the core shell (interface) to control the whole OS. Implement scheduling for user threads.

· More developments could be implemented. Mouse control and signals have been achieved.

SELECTED HONORS & AWARDS

Second-class Scholarship of Zhejiang University	*2019*
Second-class Scholarship of ZJU-UIUC Institute	*2019*
ZJU-UIUC Institute, Deans List	*2018*
Second-class Scholarship of Zhejiang University	*2018*
Academic Excellent Individual of Zhejiang University	*2018*
Third-class Scholarship of ZJU-UIUC Institute	*2018*

SKILLS

Programming Languages	Python, C, C++, HTML, Javascript
Packages & APIs	Pytorch, Numpy
Tools	SVN, Git, Shell, Latex, Matlab
Languages	Chinese, English

RELEVANT COURSEWORK

ECE120: Intro to Computing A

Learned about assembly language and some basic concepts of machine-level architecture.

ECE220: Computer Systems & Programming A^+

Learned about assembly language and some basic concepts of machine-level architecture.

CS225: Data Structures A^+

Learned concepts and applications of basic data structures, implementing data structures with C++.

ECE374: Algorithms & Models of Computation A^+

Learned design and analysis of algorithms, formal automata, and complexity.

ECE391: Computer System Engineering A

Learned concepts of modern computer system design and system programming skills.

CS418: Interactive Computer Graphics A^+

Learned basic concepts of computer graphics as well as basic skills of HTML and Javascript to achieve the basic interaction on the website.

CS447: Natural Language Processing A^+

Learned basic concepts of computational linguistics, from morphology, syntax to semantics, nlp applications such as syntax parsing, machine translation, generation and dialog systems.

ECE498ICC: IoT and Cognitive Computing A

Learned basic concepts of IoT as well as Neural Network and Cognitive Computing.