

Sherry (Xiangyu) Wu

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Personal Webpage: <https://sherrywu0710.github.io/>

EDUCATION

University of Illinois at Urbana-Champaign
Bachelor of Science in Computer Engineering
Minor: Business

May 2020
GPA: 3.79/4.00

- Dean's List (Fall 2016- Present), James Scholar (Spring 2016-Present), HKN (Fall 2017-Present)

COURSEWORK

Data Structures (C++)	Database System (SQL)	Artificial Intelligence (Python-In Progress)
Data Mining (In Progress)	Digital Systems Laboratory (SystemVerilog)	Computer System Engineering (C, X86)
Analog and Digital Signal Processing	Linear Algebra	

PROJECTS

X68 Kernel System A Spring 2019

- Constructed a Kernel with customized operating system from scratch with C and x86 assembly
- Setup interrupt descriptor table and basic paging support
- Wrote I/O interface: file descriptors, buffering, control operations, memory mapping
- Supported multi-terminal, basic scheduling, system call interface and file system
- Implemented multiple device drivers: real time clock, programmable interval timer, PS/2 keyboard, and PC speaker

Team You Up

Summer 2019

- Built a website serves as a platform to help students manage team projects and instructor keep track of teams' progress
- Using Django for both front-end and back-end and use PostgreSQL to manage database
- Designed and implemented an algorithm for auto-match to help student find teammates
- Basic UI constructed with CSS, JavaScript, and html
- Deployed to Heroku at <https://teamyoup1.herokuapp.com/>

Pac-Man Arcade Game

Fall 2018

- Created a modified version of Pac-Man using FPGA
- Wrote game algorithm in SystemVerilog and C
- Adding sound effects to on-chip memory
- Design and test USB keyboard protocol and a standard VGA protocol using SystemVerilog and FPGA

PURE Research Program

Sept 2017- May 2018

Research Assistant

- Worked as research assistant advised by Ph.D. student Wei Yang
- Researched in adversarial Machine Learning field and performed adversarial attack on an open source plate recognition system

EXPERIENCES

Software Test Engineer

Shanghai, China
May-Aug 2018

Intern at Neusoft Corporation

- Evaluated websites to ensure they are living up to their purpose and consistently producing desired results through automated tests
- Tested both Android and iOS mobile applications to determine whether they met product requirements through manual tests
- Submit observation through Excel test reports to development team

Digital Systems Laboratory (ECE 385) Undergrad Teaching Assistant

Champaign, IL
Spring 2019 - Present

- Hold office hours and open lab for students
- Attend weekly lab section to assist students regarding questions for TTL, FPGA, and SystemVerilog

Analog Signal Processing (ECE 210) Course Staff

Champaign, IL
Fall 2019 - Present

- Grading Homework and Exams

Techniques for Engineering Decision (ECE 307) Course Staff

Champaign, IL
Spring 2019

- Grading Homework and Exams

Deloitte Touche Tohmatsu CPA Co., Ltd. Beijing Branch

July 2016

Intern at Enterprise Risk System

- Translated and collected information; created PowerPoints to show companies' financial systems
- Conducted interview with HR from different companies to help create a framework for responding to critical enterprise risks

SKILLS

- Advanced: C++, C, Python, SystemVerilog, X86 Assembly, SQL, MongoDB, Neo4j, Linux environment
- Intermediate: MatLab, html, css, Javascript
- Fluent in Cantonese, Mandarin