

Ruobin (Ruby) Wang

603 E White Street ♦ Champaign, IL 61820 ♦ (415) 900-7521 ♦ rubywang1029@gmail.com ♦ ruobin1@163.com

EDUCATION

University of Illinois at Urbana Champaign, IL

August 2017 - May 2021 (Expected)

- Bachelor of Science in Computer Engineering **James Scholar Honor, Dean's List**
- Relevant Coursework: Data Structure (C++), Database Systems, Computer Systems (x86 & C), User Interface Design, Algorithms, Machine Learning, Text Information Systems, FPGA
- Skills: C, C++, Java, Assembly Languages, Database (MySQL, MongoDB, Neo4J), HTML5, CSS3, Web Design, Python, PHP

WORKING EXPERIENCE

Champaign County 211 Reboot, National Center for Supercomputing Applications

August 2020 - Current

Software Development Engineer & Research Intern (HCI Designer), <http://spin.ncsa.illinois.edu>

- Developed web applications for the Illinois PATH 211 as a non-emergency 911, provided information on social service providers
- Designed interfaces for dynamic user interactions, improved user experience by integrating user feedback

City Settlers Research, UIUC

February 2020 - Current

Front-end Development Engineer Supervised by Michael Tissenbaum (miketiss@illinois.edu) at the College of Education

- Designed an online educational game for 7th and 8th graders to participate in town development, disseminated economic and environmental principles through simulated circumstances
- Conducted game testing in local middle schools, collected data of students performance, analyzed their voice chat within speaking conditions, topics frequency and the involved hardware (microphone hardware), discord bot and machine learning
- Optimized the existing structures in appearances, frames and features, implemented new functionalities for the game mechanics such as map synchronization, user interactions, market trading and etc. mainly with HTML/CSS/JavaScript and databases

Jiaxing Quantum Infrared, China

December 2019 - January 2020

Software Development Engineer Intern

- Developed new pages and functions for the company website, detected and fixed flaws for the existing application
- Created useful internal databases for storing inventory data, copies of assigned contracts using MySQL

CS 125 Introduction to Computer Science Course Assistant, UIUC

January 2018 - May 2018

- Helped students conquer difficulties throughout lab sections, identified and fixed their errors in programming assignments

PROJECT EXPERIENCE

Machine Learning and Data Science II – Development and Frameworks Online Project-based Learning Program

Using Deep Learning Algorithms to Detect Fake Job Posting Online (Accepted by AIAT 2020)

July 2020 - August 2020

- Built a deep learning model to detect the fake jobs online based on practical datasets extracted from hiring fliers, job posting forums and collective databases
- Analyzed different labels in the aspects of frequency, matching rates and values, finalized the training data based on several basic features with Support Vector Machine algorithm
- Checked with the AUROC (area under the ROC curve), reached a value around 0.932
- Got invited to present the paper at 2020 International Conference on Artificial Intelligence and Application Technologies

Core of Operating System - Project for ECE 391 (Computer Systems)

March 2020 - May 2020

- Carried out the entire project based on the IA-32 Intel Architecture Software Developer's Manual using x86 and C
- Developed the operating system with support for non-preemptive context switching, segmented memory protection, a simple file system, and drivers for keyboard input, text output and clock

Advanced Course Finding Application - Project for CS 465 (User Interface Design)

August 2019 - December 2019

- Designed a web application for UIUC students with advanced filters and algorithms, completed front-end development and solved existing UI problems via PHP/HTML/CSS/Javascript/advanced SQL queries

Game Simulation Database-Project for CS 411 (Database Systems)

June 2019 - August 2019

- Designed a web application for League of Legend players' keeping track of their statistics, completed front-end development via PHP/HTML/CSS/JavaScript, UI design, advanced SQL queries

Illinois Robomaster - Member of the Computer Science Group

November 2017 - August 2018

- Trained robots by implementing artificial neural network augmentation, developed team website via HTML/CSS/Javascript.

VOLUNTEERING WORK

Women in Engineering, UIUC

August 2018 - Present

- Encouraged teenagers to know more about STEM area, joined social meetings and lectures of different speakers on Engineering