

JUNSHENG HUANG

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EDUCATION

Zhejiang University-University of Illinois at Urbana-Champaign

Dual Bachelor of Electrical and Computer Engineering

Expected June 2025

UIUC-GPA: 4.00/4.00

ZJU-GPA: 3.98/4.00

Relevant Courses and Grades:

Operating Systems (ECE391)-A, Computer system Engineering (ECE220)-A, Data Structure (CS225)-A+, Linear Algebra with Computational Applications (MATH257)-A+, Differential Equations (MATH285)-A+, Basic Discrete Mathematics (MATH213)-A+, Probability with engineering applications (ECE313)-A+, Digital Signal Processing (ECE310)-A+ Artificial Intelligence (CS440)-current, Algorithm (CS374)-current, Machine Learning (CS446)-current

RESEARCH INTERESTS

Application of LLM on NLP (AI agent)

Mathematical aspect of machine learning

Trustworthy and reliable LLM

REASEACH EXPERIENCE

Galaxy Federated Learning Framework

June 2022 – August 2022

Instructor: Chao, Wu (from ZJU)

- Explore a possible method to obtain training data for machine learning from clients with privacy protections
- Help adding functions for monitoring the status of CPU and GPU while running the program
- Debug the data transporting process so that the model can be delivered and trained

LLM Safety

January 2024 – Current

Instructor: Gagandeep Singh (from UIUC)

- Finding a more efficient and stronger way to attack LLM (LLaMA2)
- Using GCG (Greedy Coordinate Gradient-based) and PGD (Projected Gradient Descent) model to find harmful strings.

COURSE PROJECTS

391 OS System

September 2023 – December 2023

- **Basic functionalities:** Implemented an operating system supporting basic functionalities like scheduling, interrupts, system calls, exceptions, and file systems
- **Self-designed features:** Ata drivers to support writable file system, command history, changeable color and auto complete

TECHNICAL SKILLS

Programming: C, C++, Python, MATLAB, x86 assembly, Unreal Engine 5, pytorch

Spoken Languages: English (Professional), Mandarin (Native)

HONORS

- Honorable Mention of Mathematical Contest of Modeling
- ZJU-UIUC Institute Third-Class Academic Excellence Award for **semaphore year**
- UIUC Grainger Engineering Department Dean's List for **first semester in junior year**

May 2023

LEADERSHIP AND EXPERIENCE

- Course Assistant for ECE391 (computer operating system)

January 2024 - Current