

Erkai Yu

Mobile: (217)255-0250 | Email: erkaiyu2@illinois.edu | Address: 1010 W. University Ave Apt.326 Urbana, IL, 61801
Homepage: silkrow.github.io | Github: github.com/silkrow

EDUCATION

University of Illinois at Urbana-Champaign, The Grainger College of Engineering	Expected June 2024
<ul style="list-style-type: none">Bachelor of Science in Computer EngineeringCumulative GPA: 3.93/4.0Relevant coursework: Operating Systems Engineering, Anomaly Detection, Database Systems, Embedded System Security, Algorithms and Data Structures.	
Zhejiang University, ZJUI Institute	Expected June 2024
<ul style="list-style-type: none">Bachelor of Engineering in Electric and Computer EngineeringCumulative GPA: 3.96/4.0	

SKILLS

Programming Languages: C/C++, Python, JavaScript, SQL, MATLAB
Tools: Linux OS, MongoDB, MySQL, PyTorch, Ghidra, Wireshark

SELECTED HONORS

Third Class Scholarship of ZJUI 2020-2021
Dean's List of UIUC, 2020-2021

RESEARCH EXPERIENCE

Embedded system programming for laboratory machines.	July – Aug 2021
Unsupervised anomaly detection in computer vision.	Jan – June 2022
Embedded system library matching.	May – August 2023

PROJECTS

Automatic vaccine distribution database, a command line tool for coursework.	Feb – June 2022
<ul style="list-style-type: none">A system capable of receiving more than 10,000 registration a day.Implement efficient data structures to construct a database with C++.Command line tool, with a built-in shell for users to interact.	
Unsupervised anomaly detection in computer vision.	Jan – June 2022
<ul style="list-style-type: none">A framework based on Contrastive Learning for unsupervised anomaly detection.Implemented with PyTorch.	
A 32-bit x86 operating system built from scratch.	Oct – Dec 2022
<ul style="list-style-type: none">A basic operating system that supports multiple system calls with a terminalWritten in CMulti-threading support	

WORKING EXPERIENCE

The Grainger College of Engineering	Jan – May 2023
Course Assistant for ECE 391: Computer System Engineering	