

Erkai Yu

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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 Engineering• Cumulative GPA: 3.93/4.0• Relevant coursework: Operating Systems Engineering, Anomaly Detection, Database Systems, Algorithms and Data Structures.	
Zhejiang University, ZJUI Institute	Expected June 2024
<ul style="list-style-type: none">• Bachelor of Engineering in Electric and Computer Engineering• Cumulative GPA: 3.96/4.0	

SKILLS

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

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

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 terminal• Written in C• Multi-threading support	