






TOMOYOSHI KIMURA

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EDUCATION

University of Illinois at Urbana Champaign 2020 - 2023
Bachelor of Science in Computer Science GPA: 4.0
Related courses:
Computer Security Machine Learning System Programming
High Frequency Trading Algorithms Data Structures
Computational Photography Computer Architecture Numerical Methods

SKILLS

Programming Languages: C, C++, Python, HTML, CSS, JavaScript
Frameworks & Tools: **Backend:** TensorFlow, Pytorch, AWS, Firebase, Git, Numpy, OpenCV
FrontEnd: React, React Native, Node.js
Languages: English, Mandarin, Japanese

EXPERIENCE

National Center for Supercomputing Applications August 2021 - Present
SPIN Intern
- Integrated the agricultural research with Computational methods such as **Convolution Neural Network** and Geoimage processing to analyze the crop production of the state of Illinois.
- Built classification models with **ResNet18** using **Pytorch** and **TensorFlow** to assist research related to Illinois' crop growth. Improved previous models accuracy by **60%**.
- Implemented **Computer Vision segmentation methods** for object detections that was a part of the agricultural study on the effect of brutes to methane production in Illinois.

PROJECTS

Cow Instance Segmentation November 2021 - Present
- XXX
- XXX
Tillage Classification September 2021 - Present
- XXX
- XXX
Real-time Face mask detection September 2021 - December 2021
- Computational Photography Final Project
- XXX
Personal Website June 20xx - April 20xx
- XXX
- XXX

EXTRACURRICULAR

Work Station x, Strange Place x June 20xx - April 20xx
Title
- XXX
- XXX
Work Station x, Strange Place x June 20xx - April 20xx
Title
- XXX
- XXX