

Kunjun Li

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EDUCATION

National University of Singapore

Aug 2022-Present

Bachelor of Engineering in Computer Engineering (Honours)

Cumulative GPA: 4.79 / 5.0

Incoming Exchange at University of Washington, Seattle, 24-25 Spring

PUBLICATION

Kunjun Li, Manoj Gulati, Dhairya Shah, Steven Waskito, Shantanu Chakrabarty, Ambuj Varshney
“Demo Abstract: PixelGen: Rethinking Embedded Camera Systems for Mixed-Reality”. In *Proceedings of the 2024 ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN '24)*, Hong Kong, China, May 2024. **Best Demo Runner Up**.

PROFESSIONAL EXPERIENCE

NUS-NCS Joint Laboratory

Singapore

Undergraduate Research Assistant

07/2023 – present

Supervisor: Prof. Ambuj Varshney

- Proposed and developed PixelGen, a novel Embedded Camera System (ECS) integrating Large Language Models and Latent Diffusion Models, to enhance environmental visualization.
- Demonstrated high-resolution image generation from low-resolution data.

NCS Group

Singapore

Edge AI Development Intern

02/2023 – 06/2023

- Designed machine learning models for object detection and voice recognition in IoT applications.
- Enhanced model efficiency for IoT devices using pruning and quantization techniques.

PROJECT EXPERIENCE

AI-Powered Crowd Density Management for NUS Campus

NUS

Supervisor: Prof. Xavier Bresson

- Developed and trained ML models for campus crowd density classification, using various techniques to enhance accuracy and efficiency.
- Collected and preprocessed actual crowd images from the NUS campus for training and evaluation.

Convolutional Neural Network Acceleration

NUS

Supervisor: Prof. Chua Dingjuan

- Integrated CNN on an FPGA board for model acceleration and enhanced processing efficiency.
- Evaluated the classification accuracy of CNN on MNIST database.

SKILLS

Programming Languages:

- Python, C, C++, Java, Go, Matlab, Shell Scripting

Machine Learning:

- Efficient ML (model pruning and distillation, distributed system, hardware acceleration). Familiar with recent deep learning models (VAEs, BERTs, ViTs) and training practices.