

Sitt Srirapinngam

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EDUCATION

Computer Engineering, Chulalongkorn University

B.E. in Computer Engineering and Digital Technology, Cumulative GPA: 4.00/4.00

Bangkok, Thailand

2023 - 2027 (expected)

RESEARCH INTEREST

My broad research interests are:

- Computer Vision, Machine learning, Computer Graphics, Multimodal Learning, Continual learning, Human-Computer Interaction, Immersive Systems

INDUSTRY EXPERIENCE

Lumio3D Co., Ltd.

Research Intern

May 2025 – July 2025

- Developed a neural style transfer network to correct photometric normals in facial scans.
- Optimized a 3D Gaussian Splatting animatable head avatar for improved compatibility with static multi-view facial scans.

Dplus Intertrade Co., Ltd.

Software Engineer Intern

May 2024 – July 2024

- Collaborated with the ERP team to develop and optimize the cross-storage shipping software.

RESEARCH EXPERIENCE & PROJECTS

AI-Powered Auto Rigging System

Capstone Project

Sep. 2025 – Present

- Developed an AI-driven system to automate the rigging process for 3D character models in animation and VFX pipelines.

Intelligent Systems Lab II, Chulalongkorn University

Research Assistant, Lab Member

Nov. 2023 – Present

- Applied Gaussian Splatting techniques to develop a virtual tour of Thai heritage sites, exploring differential rendering and basic 3D reconstruction.
- Tracked the movement of a seven-piece Tangram puzzle, gaining experience with camera calibration and feature-matching techniques.
- Assisted in developing and testing an optical absolute encoder using CMOS imaging, engaging in the full research pipeline from data acquisition and signal processing to analysis, and contributed to a paper draft.

Selected Course Projects

- **NLP Systems** : Fine-tuned LLMs for a tabletop RPG system (Dungeons & Dragons) to manage in-game situations, player states, and dynamic context transitions. (Awarded 1st place in course popular vote.)
- **Real-Time Computer Graphics**: Explored real-time subsurface scattering techniques for human skin, implemented in Unity, with basic rigging.

RELEVANT COURSEWORK

Artificial Intelligence/Machine Learning, Natural Language Processing, Introduction to Data Science, Real-time Computer Graphics, Computer Engineering Mathematics I, II

AWARDS, CERTIFICATIONS, AND SERVICES

Department's Academic Distinction Award

Nov. 2024

- Outstanding Recognition as the 2nd place in Software Engineering class of 2023.

ICPC National Round Preparation Team

Sep. 2024

- Prepared systems for the International Collegiate Programming Contest (ICPC), Thailand National Round.

3rd prize, CEP-NXPO Application Development Contest

Aug. 2023

- Developed an application enabling companies and individuals to purchase retail carbon credits directly from project dealers to combat climate change.

ADDITIONAL INFORMATION

Languages

- Thai (Native), English (Fluent)

Skills

- **Relevant Programming Languages/Tools:** Python, PyTorch, Hugging Face, Wandb, Git, L^AT_EX, OpenCV