HEFU SHAN

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🎓 EDUCATION

Sophia University, Tokyo, Japan   Apr. 2025 – Present
Master of Science in Artificial Intelligence (Computer Vision), Expected Mar. 2027

Teikyo University, Tochigi, Utsunomiya, Japan   Apr. 2021 – Mar. 2025
Bachelor of Science in Information and Electronics Engineering

👥 INTERNSHIP/PROJECTS/RESEARCH

Panoramic Autoencoder Decoder   Jun. 2025 – Present
Python, PyTorch, CUDA, Conda   Research

- Addressed geometric distortion for panoramic images based on the fundamental MAE (Masked AutoEncoder).
- Redesigned spherical positional embeddings using latitude and longitude converted to 3D Cartesian coordinates, incorporating Fourier features and spherical harmonics.
- Utilized adaptive masking, random masking, and multi-stage sampling for cosine annealing training.

Blog and Portfolio   May. 2025 – Present
Jekyll, HTML5, CSS3, JS, TS, React   Personal Project

`https://shengruduzhou.github.io/ https://shanhefu-portfolio.vercel.app/`

- Built a static front-end blog using Jekyll, creating an interactive blog with traditional front-end technologies (HTML5, CSS3, JS).
- Developed a highly interactive and futuristic portfolio using React scaffolding and dynamic animation effects with TS/GSAP/Anime.js, leveraging hardware acceleration for many effects. (Note: Maybe required using VPN required to access, and GPU recommended for optimal viewing of effects.)

Online Course Feedback System   Apr. 2024 – May. 2025
React, JS, CSS, HTML, Flask, ARIMA, MySQL   Bachelor's Thesis

`https://github.com/shengruduzhou/Feedback_System`

- Developed a full-stack web system using Python, Flask, and JavaScript to analyze and provide feedback on student concentration.

T-net Classroom Question System   2023
Java, HTML5, CSS3, JS, Spring Boot, MySQL   Group Project

- Built a web-based question system for university students using Spring Boot and MySQL (for true/false questions and score calculation).

⚙ IT SKILLS

- **Programming Languages**: Python, Java, JavaScript/TypeScript, SQL
- **Machine Learning**:
  - **Frameworks**: PyTorch
  - **Libraries**: NumPy, Pandas, OpenCV, Scikit-learn
  - **Models**: Transformer, Vision Transformer (ViT), Masked Autoencoder (MAE), CNN

- **Web Development**:
  - **Front-End**: React, HTML5, CSS3, GSAP, Anime.js
  - **Back-End**: Flask, Spring Boot
- **Tools & Databases**: Git, GitHub Actions, Docker, Conda, Maven, MySQL, LaTeX

♡ HONORS AND AWARDS

Rotary Yoneyama Memorial Scholarship Nominee (Final Interview Stage), Scholarship	2023
Japan Student Services Organization (JASSO) Scholarship Recipient, Scholarship	2021

𝐢 MISCELLANEOUS

- Technical Blog: https://shengruduzhou.github.io/
- GitHub: https://github.com/shengruduzhou
- Languages: English - Intermediate (TOEIC 610), Japanese - Fluent, Chinese - Native