Muhammad Azreen Bin Muhamamd

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EDUCATION

Singapore Institute of Technology   **Aug 2023 – Aug 2026**
Bachelor of Applied Artificial Intelligence   **(expected)**

Temasek Polytechnic   **Apr 2016 – Feb 2020**
Diploma in Computer Engineering

Exchange Program
Kumamoto University (Japan)   **Feb 2019 – Apr 2019**

PROJECTS

SIT X HTX (Home Team Science and Technology Agency) 3D Reconstruction App   **Jan 2025 – June 2025**
For Fire Investigation
Develop a scalable, near real-time 3D post-fire scene reconstruction application

- Utilization of 3D Gaussian Splatting (3DGS) for scene reconstruction for incomplete and damaged structures incomplete and damaged structures
- 3DGS can achieve near-real time performance, e.g. less than 1hr on top of the 3DGS scene captured using camera

Anime Image Upscaling with Fine-Tuned Real-ESRGAN (M-ESRGAN)   **Sep 2024 – Dec 2024**
Our goal is to find a new way to tune the R-ESRGAN model specifically for anime and anime upscaling tasks

- Utilizing adversarial training to train the model to achieve parity of the upscale image to the source material.
- Image augmentation by the decade of release of each anime medium to tune it for each generation of anime image quality.

WORK EXPERIENCE

SIT X HTX – Research Assistant   **Jan 2025 – June 2025**
- Focus on 3D reconstruction and investigation of post-fire scenes
- Develop a scalable, near real-time 3D post-fire scene reconstruction application

Freelancer – Software Engineer   **Aug 2022 – Mar 2023**
- Developed 3D VR software for educational use for student
- Hand Interaction: Pick up, inspect, and interact with objects using HTC Vive controllers.
- Teleportation System: Smooth movement with teleportation to avoid motion sickness.

Aviation Virtual Pte Ltd – VR Developer   **Sep 2019 – Feb 2020**
- Worked as a 3D VR programmer of various VR-related projects for clients in varying sectors.
- Created a login system using text files(.JSON, .txt and .cs) as a database and integrate it on VR project
- Implement trigger events as to the certain markers for the workers to practice on a task

SKILLS

- NS 55   **MMM YYYY**
- Achievement or Award 2 [optional]   **MMM YYYY**

INTERESTS

- Skill 1 (e.g., IT Skills: SQL, C++ and Java)
- Skill 2 (e.g., Language skills which are not 'apparent' – German (Basic), Korean (Intermediate))