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| **Muhammad Azreen Bin Muhamamd**  Mobile: +65 80717375 Email: 2200581@sit.singaporetech.edu.sg | |
| **Website: https://the1azreen.github.io/Digital\_Resume/**  **EDUCATION** | |
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| **Singapore Institute of Technology** | **Aug 2023 – Aug 2026** |
| |  |  | | --- | --- | | **Bachelor of Applied Artificial Intelligence** | **(expected)** | | |
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| **Temasek Polytechnic** | **Apr 2016 – Feb 2020** |
| **Diploma in Computer Engineering** | |
| **Exchange Program**  **Kumamoto University (Japan) Feb 2019 – Apr 2019** | |
| **PROJECTS** | |
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| **SIT X HTX (Home Team Science and Technology Agency) 3D Reconstruction App For Fire Investigation** | **Jan 2025 – Aug 2025** |
| *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 | |
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| **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. | |
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| **WORK EXPERIENCE** | |
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| **SIT X HTX – Research Assistant** | **Jan 2025 – Aug 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** | |
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| • Coding Skill: C, C++, C#, Python, R, MySQL, Java  • Software Proficiency: R Studio, Colab/ Kaggle, Microsoft Office, VS Studio, Power  Bi  • Certificates: A4I Literacy-in-AI\_AI4I®, A4I Foundations-in-AI\_AI4I® |  |
| **INTERESTS** | |
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| • Social, Ethics, Transformative Content (Video Essays), Technical Writing, Machine Learning, LLM, Deep learning,  Computer Vision, Video Gaming and Video Game Analysis. | |