ALVIN YU

📞 +65 8113 7655
✉ y.zhiweialvin@gmail.com
🔗 https://www.linkedin.com/in/alvin-yzw

EDUCATION

Singapore Institute of Technology - Digipen Institute of Technology　　Aug 2023 - Present
Bachelor of Computer Science in Interactive Media and Game Development

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Republic Polytechnic　　Apr 2018 - Apr 2021
Diploma in Business Information Systems

SKILLS

Languages: Proficient in English, Conversational in Mandarin
Programming: C, C++, C#, JavaScript and SQL
Design: Canva, Figma
Engines: Unity, Custom C++ Engines

WORK EXPERIENCE

Application programmer
Sysquest Technology Pte Ltd　　Mar 2020 - Jul 2020

- Utilized C# in .NET, HTML, JavaScript, and MySQL to code, debug, and maintain application features based on client requirements, ensuring compliance with business standards and **achieving high levels of customer satisfaction**.

RELEVANT PROJECTS

Purr-suit of Home　　Jan 2024 - Apr 2024

- **Led a team of 5** as a Product Manager and Programmer to **design and develop a 2D game in C++** inspired by "Crossy Road," utilizing DigiPen's Alpha Engine to implement core gameplay mechanics and features.
- Designed and implemented the **core architecture and mechanics** of a project while coordinating with team members to ensure smooth integration of features and maintain overall project cohesion.

The Pharaoh's Legacy　　Sep 2024 - Apr 2025

- **Led a team of 8** as a Product Manager and Programmer to **develop a 2D game engine in C++** leveraging a Component-Based Entity architecture, enabling the successful creation of a puzzle game.
- Implemented an internal debugging system for identifying runtime issues easily, engineered a particle and animation component system that allows for seamless transitions and visual effects, and also integrated an asset browser to allow drag and drop of files into the engine.

ACHIEVEMENT

DSTA Brainhack CODE_EXP 2024　　Jun 2024

- **Collaborated with a team of 5** during a **2-day hackathon** to develop an AR-based object recognition prototype that scanned physical objects and displayed contextual product and environmental information, raising user awareness of carbon emissions.

LEADERSHIP EXPERIENCE

Treasurer and Marketer of Drama Interest Group　　Apr 2019 - Apr 2020

- **Organized and coordinated** a 3-day CCA camp for **20+ participants** by managing logistics and collaborating with the executive committee, resulting in **high levels of participant engagement and a successful event**.