ALVIN YU

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EDUCATION

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

Republic Polytechnic   Apr 2018 - Apr 2021
Diploma in Business Information Systems
- Advanced Web Application Development in .NET **|** Database Systems

SKILLS

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

WORK EXPERIENCE

Application programmer   Mar 2020 - Jul 2020
Sysquest Technology Pte Ltd
- 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**.

PROJECTS

Team Lead & Programmer | **Python Quiz Generator**   Oct 2020 - Feb 2021
- **Led a team of 3** to **design and develop a web application** using C# in .NET, HTML, JavaScript, and MySQL that allows for educators to easily generate, assign, and manage Python exercises, with an emphasis on **user-friendly UI/UX design**.
- Designed and implemented the **core architecture and functionality** of the web application while collaborating with team members to ensure seamless feature integration and maintain overall system cohesion.

Product Manager & Programmer | **The Pharaoh's Legacy**   Sep 2024 - Apr 2025
- **Led a team of 8** to oversee the **development of 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.

COMPETITION

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.

CO-CURRICULAR ACTIVITIES

Treasurer and Marketer of Drama Interest Group   Apr 2019 - Apr 2020
- **Organized and coordinated** a 3-day CCA camp for **more than 20 participants** by managing logistics and collaborating with the executive committee, resulting in **high levels of participant engagement** and **95% positive post-event feedback.**