

Joel Lee Jie

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Summary

Highly motivated and results-oriented Computer Science student specializing in Real-Time Interactive Simulation, seeking a Game Programmer role. Proficient in C++ and C#, with a solid foundation in data structures, algorithms, and object-oriented programming. Eager to apply strong problem-solving skills and passion for games to contribute to dynamic development teams and create engaging interactive experiences.

Education

BSc Computer Science in Real-Time Interactive Simulation

Singapore Institute of Technology - DigiPen

Singapore Aug 2023 – Current

- Year 2 Student
- CGPA (as of writing): 4.78
- Coursework includes core programming in C++ and C#, data structures, algorithms, and concepts fundamental to game development and interactive systems.

Technical Projects

Project Showcase [GitHub](#)

A portfolio of personal projects demonstrating programming skills and applications.

Featured Project: Video Player [YouTube Demo](#)

- Developed a full audio and visual Video Player in C++ using FFmpeg for media decoding and SDL2 for rendering and audio playback.
- Integrated Windows' file explorer for seamless file selection, demonstrating system-level interaction and API usage.
- Showcases understanding of low-level media processing and real-time rendering pipelines.

GenshinDB [GitHub](#)

An interactive database application for a popular game, Genshin Impact.

- Created a WPF .NET Database application using C# and PostgreSQL for backend data management.
- Implemented a data sourcing mechanism from an official Genshin wiki, parsing and formatting information for storage in a PostgreSQL database hosted on Neon.Tech.
- Designed an intuitive user interface with WPF to display, access, and interact with the game data.

Skills & Interests

Languages: C++, C#

Concepts: Data Structures, Algorithms, Object-Oriented Programming, Game Development

Tools/Platforms: SDL2, FFmpeg, PostgreSQL, WPF, Git, Windows API

Soft Skills: Communication, Problem-solving, Teamwork, Adaptability, Time Management

Interests: Action and Fantasy Manga, Shooter/Gacha Games (especially miHoYo titles)

Work Experience

Retail Assistant

Chateraise

Bishan, SingaporeFeb 2023 - Aug 2023

- Provided professional and friendly customer service, promptly resolving customer concerns to ensure satisfaction.
- Successfully de-escalated conflicts and guided problems towards proper resolutions, demonstrating strong interpersonal and communication skills.
- Cultivated a positive and collaborative working relationship with colleagues, fostering a productive team environment.

Signaller, Artillery

Singapore Armed Forces

SingaporeApr 2021 - Feb 2023

- Thrived in a fast-paced, high-pressure environment, consistently performing well under demanding situations.
- Built strong relationships with team members, contributing to effective unit cohesion and operational success.
- Developed resilience and adaptability through rigorous training and operational duties.

Retail Assistant

NTUC Warehouse Club

Joo Koon, SingaporeFeb 2021

- Facilitated a smooth and efficient shopping experience for customers.

Volunteer Experience

Ad-hoc Volunteer

Willing Hearts

2024 - Current

- Serve in various roles and responsibilities at a food kitchen, collaborating with diverse individuals to prepare meals for the poor and elderly.

Usher

City Harvest Church

April 2020 - Dec 2020

- Guided attendees and supported church operations for approximately 9 months, ensuring smooth service flow.

Interact Club Member

Tembusu Senior Activity Centre

March 2019 – March 2020

- Participated in planning and executing engaging activities for the elderly, fostering community interaction and support.