

### Skills

C	C#	DirectX 11	Git/SVN/Perforce	gcc/g++	Jira/Jaas
C++	Artificial Intelligence(AI)	OpenGL	Virtual Reality(VR)	Confluence	Testing Program

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### Academic Projects

**AI programmer - Kaiju Kabouly (2 Programmers, 2 Designers)** January 2022 - April 2022

*3D VR first-person action simulation game / Unity Engine*

- Wrote the code for the car AI system which enables traffic system in the game
- Developed human AI to reduce errors and show better movement and optimized with testing
- Debugged errors and warnings from the overall code and source control

**3D OpenGL Project (Solo Academic Project)** September 2021 - December 2021

*3D OpenGL graphics framework / Custom Engine*

- Completed core math library with C++ language which enables basic 3D transformations such as rotation, perspective and etc.
- Visualized lighting by using BRDF lighting and enables texture mapping by modifying shaders
- Implemented navigating camera controller and reflect system to make shiny specular objects reflect the skydome

**AI programmer - Flow Field Project (2 Programmers)** October 2020 - December 2020

*Flow field game AI project / Custom Engine*

- Formulated core features including AI by using the Dijkstra algorithm in C++ language
- Handled project management and designed program concept and core program mechanics

**Producer, Gameplay programmer - Cheese Roll (4 Programmers)** October 2019 - July 2020

*2D top-down cooperating puzzle game / Custom Engine*

- Built core game mechanics, game engine and game levels with C++ language include joint system for rope
- Managed the team efficiently and successfully for well-organized teamwork
- Programmed main menu UI, tutorials, and credit scenes

**Technical Director, Gameplay programmer - Finding Coffin (3 Programmers)** March 2016 - July 2016

*2D platformer running game / Custom Engine*

- Constructed core game concept and core mechanism
  - Made gameplay and all physics codes with C language
  - Designed overall UI of the game including score, main menu, and credit scene
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### Work Experience

**Software Engineer I - EA Sports** July 2022 - May 2023

- Supported Game Development teams and QAs by creating and debugging scripts in C# language to build confidence in quality through automation involved in Madden 23, Madden 24, EA SPORTS PGA Tour and College Football.
- Maintenance of the documentations and the back-end automation technologies.
- Participated in tool projects which help Game Development teams clarify issues and improve the quality verification process

**Teaching Assistant - DigiPen Institute of Technology** September 2021 - April 2022

- Helped students with C# programming in two classes to further their understanding of core topics
- Graded students' project and lab submissions and provide constructive and detailed feedback

February 2021 - April 2021

- Assisted professor in CS Programming class by helping students to understand C++ and its object-oriented features
- Reviewed student works giving productive comment after grading submissions

**High School Programming Lecturer - DigiPen Institute of Technology** November 2021 - March 2022

- Taught 12th grade students in Collège Notre-Dame de Jamhour (located in Baabda, Lebanon) via remote technology
  - Coached C language skills by lecture, quiz and assignments
  - Led the Tank game project to help students improve their understanding of C language and the structure of a game program
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### Education

**DigiPen Institute of Technology** March 2015 - April 2022

Bachelor of Science in Computer Science and Game Design

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### Additional Information

**Military Service: Sergeant, Republic of Korea Army Reconnaissance and Surveillance Unit** 2016 - 2018

- Received an award certificate medal from United Nations Command MAC secretary and awarded certificate from regimental commander for marvelous mission performance at the border against North Korea