Rui Zhu

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Education

University of Toronto, Faculty of Arts and Science
Toronto ON Canada
Honours Bachelor of Science

September 2018 - June 2022 *cGPA* - 3.45 Specialist in **Computer Science**

Skills and Qualifications

Languages: Python, C, C++, C#, HTML, CSS, JavaScript, VBA, Java, SQL, Bash Frameworks: React/React Native, MongoDB, Opengl, Node.js, MySQL Flask, Postman, .NET, Bootstrap Version Control: Git, Perforce, Plastic SCM Game engine: Unity, Unreal5

Personal Project

 Unity Tool development Developed a procedural map generator for Unity3d using the Raycasting method 	June 2021
 Developed a procedural map generator for onity su using the Raycasting method develop log: <u>https://zhuruisy.itch.io/a-tresaure-finding-game/devlog/252566/land</u> 	decane-design
	July 2022
 GameJam project <i>portal arena</i> Responsible for the UI and game object functionality with Unreal5 C++. 	July 2022
Link: <u>https://papacashew.itch.io/portal-arena</u>	
GameJam project Microcosm	June 2023
• Responsible for the UI and Enemy script programming with Unity C#.	,
Link: <u>https://blackbytebrigade.itch.io/microcosm</u>	
XNA Game	June 2020
• 2D zombie shooting game using XNA framework.	,
• Responsible for level design, gameplay programming, UI programming. 2D character	er animation.
Course Project	
Computer Graphics	Jan 2021
 Implementing Ray tracing, Ray Casting, forward and inverse Kinematic with OpenG Implementing noise shader, normal map, uv map with HLSL 	L and C++
Robot arm by Embedded System	April 2022
• 4 DOF Robot arm controlled by stm32 Arm microcontroller.	•
Responsible for implementing the interface for the step motor	
• Responsible for designing the movement algorithm by using inverse Kinematic	
Stolen Valour	April 2021
• A 2.5d fighting game made with unity3D	
• Responsible for Level Design, UI programming, and GamePlay programming	
 link:<u>https://zhuruisy.itch.io/stolen-valour</u> 	
AI Development	Sep 2021
• Implementing different search methods including Uninformed and Heuristic search	1
 Implementing decision tree using the Entropy method 	
Software development	October 2021
React Native based multiplatform educational game with Frogskin U	
• Responsible for Menu function and backend api puls Database with MongoDB	
• Responsible for communicating between the team and manager across 3-time zone	<u>!</u>