

Seonghwan (Hwany) Oh

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EDUCATION

San Diego State University (Exchange Program) <i>B.S. in Computer Science (Exchange Semester)</i>	Jan. 2025 – May. 2025 <i>San Diego, CA, USA</i>
University of Seoul <i>Cumulative GPA: 3.58</i> <i>B.S. in Computer Science, Minor in Data Science</i>	Mar. 2019 – Feb. 2026 <i>Seoul, South Korea</i>

PROFESSIONAL EXPERIENCE

Unity Developer Intern <i>Skills: Unity, C#, Shader, Vuforia Engine (AR), Figma</i> <i>Mobile App Development Cooperation</i>	Aug. 2024 – Oct. 2024 <i>Seoul, South Korea</i>
<ul style="list-style-type: none">Built and published two mobile games on iOS & Android platforms using Unity: <i>Ppukku's Grand Adventure: Grow Longer! (iOS)</i> <i>Ppukku's Grand Adventure: Catch It! (iOS)</i>Implemented DFS-based surround detection, object pooling, and physics-driven interactions to boost performance by 35%.Authored technical guides and debugging instructions to streamline onboarding processes.	
Research Assistant Intern <i>Skills: Data Analysis, SQL, Flask, Javascript, GCP</i> <i>SKYGG</i>	Dec. 2022 – May. 2023 <i>Seoul, South Korea</i>
<ul style="list-style-type: none">Assisted in building a Web3 gaming playground and blockchain analytics platform.Implemented Python Flask microservices to collect and visualize Axie Infinity battle logs on GCP.Utilized MySQL for storing real-time player data and generating interactive dashboards.	

PROJECT EXPERIENCE

Game Programmer <i>Skills: Unity, C#, Systems Programming, CSV Data Handling</i> <i>GameMakers (Unity Certified Game Developers Club) 8th – Team Fate</i>	Mar. 2024 – Current <i>Remote</i>
<ul style="list-style-type: none">Developing a Unity 2D escape-room game with a 6-member team, targeting a March 2025 release.Created an event-driven architecture enabling flexible customization of in-game states via CSV scripting.Implemented a cylindrical lock dial using trigonometry and real-time checks for puzzle progression.	
Procedurally Generated Puzzle Adventure with Speech AI <i>Skills: Unity, C#, PCG</i> <i>Capstone Project in Computer Science / Team Leader</i>	Sep. 2024 – Dec. 2024 <i>Seoul, South Korea</i>
<ul style="list-style-type: none">Designed and implemented procedural content generation algorithm utilizing Cellular Automata, Delaunay Triangulation, Minimum Spanning Tree (MST), and A* search to create dungeon maps.Integrated Speech-to-Text (STT) and Speech Emotion Recognition (SER) technologies to enhance interactivity and emotional engagement within the game.Led team coordination on project integration, version control, and prototype development.	

TEACHING EXPERIENCE

Tutor – Support for International Students Provided structured guidance on programming , data structures , debugging , and algorithms .	<i>University of Seoul</i> Sep. 2024 – Dec. 2024
C Programming Tutor Instructed C essentials : arrays, binary arithmetic, pointers, recursion, and Linux-based compilation.	<i>University of Seoul</i> Apr. 2024 – Jun. 2024

MILITARY SERVICE

Military Interpreter Facilitated communication between ROKAF and USAF A1 (Manpower & Personnel) forces at Osan Air Base.	<i>Republic of Korea Air Force</i> Feb. 2021 – Nov. 2022
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TECHNICAL SKILLS

Programming Languages: C/C++, C#, Python, JavaScript
Game Dev: Unity, Physics-based mechanics, Raycasting, Pathfinding Algorithms (A*, DFS, BFS)
Backend/Databases: Flask (Python), MySQL, Google Cloud Platform (GCP)
Web/Frontend: React, HTML5, CSS3
Tools & DevOps: Git/GitHub, Linux (Bash), GCC, Figma, Notion, Slack
Other Expertise: Systems Engineering, Troubleshooting, OOP, Vuforia (AR), Procedural Content Generation

HONORS & AWARDS

Silver Award (3rd) – University of Seoul Programming Contest (UOSPC) 2024
Excellence Award (2nd) – University of Seoul Plankton Hackathon 2024
Grand Prize (2nd) for Best Games – GameMakers 8th Cohort
Merit-Based Scholarship (Half-Tuition) – Awarded for outstanding academic performance in Spring 2024