Ayan Singal

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EDUCATION

UNIVERSITY OF WESTERN ONTARIO   2022 - 2026

London, Ontario

Bachelor of Science, Honours Specialization Computer Science - Minor in Game Development

- Recipient of the Western Scholarship of Distinction
- Recipient of the Dean's List Academic Achievement Award for 2022-23 and 2023-24
- 3.9 cGPA (4.0 scale)

PROJECTS

Look Again (Solo Project - link)   May 2024 - August 2024

- Horror game set in a high-fidelity gothic environment
- Features a fully voice acted narrative, true first-person combat, and a unique gameplay experience
- Utilizes Unreal Engine 5.4 and Audacity. Perforce Helix Core is used for version control

Procedural Dungeon Generator (Solo Project - link)   May 2024 - June 2024

- Tool that efficiently generates high quality procedural level/maze layouts
- Greenlit by Epic Games and published to the Unreal Engine marketplace
- Utilizes Unreal Engine 5.4 and linear algebra fundamentals. Perforce Helix Core is used for version control

Missile Command (Solo Project - link)   July 2024 - August 2024

- Remaster for a 1980 classic Atari game of the same name, this time featuring destruction mechanics and endless levels to enjoy
- Utilizes Unreal Engine 5.4 with all core functions implemented in C++ with efficient modular dependencies

Flipship Galactic (Solo Project - link)   March 2024 - April 2024

- Fun arcade game that features space-invaders style combat with a twist, allowing players to change the flow of gameplay by flipping into an alternate dimension where the rules of the game flipped to their opposite
- Utilizes Unreal Engine 5.0

League of Learning (Team Project - link)   January 2024 - March 2024

- Educational turn-based game featuring engaging quiz-based gameplay, with student and teacher authentication, question bank and classroom management, and classroom performance analytics
- Utilizes Java with the LibGDX framework. Git is used for version control

HACKATHONS

- **Hack Western X (2023)**: "Best Use of Circle" Prize Winner
  - Project: Outsider Trading (devpost.com/software/outsider-trading-458oy6)

- **LoJam 2022** (London's biggest game-focused hackathon): First Prize (Judges' Choice)
  - Project: Family Fisticuffs (zapchi.itch.io/family-fisticuffs-lojam-2022)

- **WDS Overhaul 2023**: Third Prize Winner
  - Added accessibility features such as text-speech integration, three key navigation and colour-blind support in addition to debugging the given codebase thoroughly