

# **Work Experience** \_\_\_

## Game Programmer (Unity) %

Oakville, ON

Oct 2024 - Current

RESEARCH | ARCHIPELAGO OF DESIGN

- Collaborated with a multidisciplinary team on Inner Alliance, a DEI-focused educational strategy game for military organizations.
- Created development tools to support the creation of diverse and visually rich environments including a procedural hex mesh building, voxelization, advanced shader techniques, and custom fog rendering.
- Architected a scalable and maintanable codebase following MVP architecture and SOLID principles.
- Accelerated development speed by 50% by developing in-editor tools for rapid iteration and efficient workflows.
- Maintain clear and concise documentation of code architecture and workflow processes to support developers and designers.

#### **Backend OA Systems Analyst**

Toronto, ON

INTERNSHIP | PROOFPOINT

May 2020 - Aug 2021

- Boost **software validation** and **operating efficiency** by designing automated and manual test solutions for **backend microservices** for a large-scale SaaS security platform.
- Developed and maintained custom python tools and jobs with Jenkins over a CI/CD pipeline to simulate production environments, optimizing testing workflows and enhancing developer productivity.
- Spearheaded end-to-end testing for a new platform migration project, owning regression and performance testing, and working closely with developers to determine memory bottlenecks under heavy load.
- Accelerated testing pipelines by 300% and replaced outdated systems by building a multi-threaded WPF tool for bulk mail processing at a company hackathon.

# Projects \_

### Ubisoft Next 2024 (Individual) %

C++, OpenGL

3D, TURN BASED, STRATEGY GAME THAT PITS YOU 1V1 AGAINST ANOTHER PLAYER AMIDST A DYING STAR.

- Built a custom 3D rendering engine using OpenGL and a line-drawing API with projection, culling, and meshes
- Implemented advanced engine features including a ECS architecture, vertex shading, collision detection, and a particle system, enhancing visual quality and gameplay interactivity.

### Dungeon Company (Technical Lead) %

Steam, C#, Unity

A ROGUE-LIKE CARD BATTLER WITH THOUSANDS OF DOWNLOADS AND POSITIVE REVIEWS ON STEAM

- Authored technical proposals, system diagrams, and architecture plans focused on event-driven design and reducing coupling through clean, pattern-driven solutions
- Managed a team of 4 programmers across gameplay and UI, organizing sprint planning, assigning tasks via a Kanban board, and hosting weekly meetings
- · Collaborated with design, art, and production leads to define scope, establish pipelines, and align on project goals

# Education \_

## **Sheridan College**

Oakville, ON

COLLEGE GRADUATE CERTIFICATE IN ADVANCED GAME PROGRAMMING

Sep 2023 – Jun 2024

**Teaching Assistant** for Computer Math I and tutor for Advanced Game Programming

### **University of Toronto Mississauga**

Mississauga, ON

HONOURS BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Sep 2017 – Jun 2022

Web Developer for the Digital Enterprise Management Association and the CCIT (Com. Tech) Department

#### Skills

Technical Skills: Dated Oriented Design, Graphics Pipelines, Vectors & Matrices, SQL Databases, UI/UX, Networking

**Programming:** C# (Proficient), Python (Proficient), C++ (Proficient), JavaScript (Proficient)

**Software:** Unity, Visual Studio, Git, Jira

Soft Skills: Effective Communication, Organization, Problem-Solving, Empathy, Adaptability

#### Awards

Mar 2024 Ubisoft NEXT Finalist, Independent C++ game built within 72 hours, recognized for advanced 3D

Ubisoft

graphics rendering and innovative gameplay.

**Gaming Garage 2nd Best Game & 2nd Best UI**, For excellence in user interface design and engaging game mechanics.

CNE

Aug 2024