

# Aniruddha Prithul

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## TECHNICAL SKILLS

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**Languages** : C, C++, C#, Python

**Technologies:** Unity, OpenGL, SDL2, ImGui, Emscripten, Visual Studio, VS-Code, RenderDoc, Nvidia Nsight, Git

## WORK EXPERIENCE

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Graduate Research Assistant

Reno, NV

### HCI Lab, University Of Nevada – Reno

Aug 2018 – Current

UNR HCI Lab conducts research on topics related to Virtual Reality like locomotion and VR sickness.

- Conducted user studies to identify drawbacks and propose improvements for VR locomotion.
  - Gained expertise working with Virtual Reality systems (Vive, Oculus, etc) and peripheral devices (Kinect, Leap Motion, etc).
  - Designed and implemented VR apps using Unity and Unreal Engine 4 using SteamVR and Oculus SDK.
  - Resulted in the publication of **4 research papers** based on the results of the experiments.

Game Developer and Designer, Mukti Camp Project

Dhaka, Bangladesh

### Mindfisher Games Inc.

Jun 2017 – Apr 2018

A former mobile game development company that has now split into Ulka Games and Alpha Potato.

- Worked on the highly acclaimed android game *Mukti Camp*.
  - Worked with Unity, Visual Studio, and Source Tree to develop the game.
  - Led development of combat gameplay and combat AI of the game within a tight deadline while completing Scrum Sprints.
  - Deployed post-launch asset bundle and integrated play game services for cloud saves.
  - Resulted in meeting launch deadline and amassing **over 500000** downloads on the Google play store with high customer satisfaction.

## PROJECTS

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- **BrewEngine:** A 2D C++ and OpenGL based game engine with custom rigidbody physics and editor.
- **Dynamic Destruction System:** A dynamic mesh destruction plugin for Unity.
- **Commander Keen NX:** A homebrew port of *Clone Keen* for the Nintendo Switch.
- **Bengali language Plugin:** A plugin to enable proper Bengali text rendering in Unity editor and games.
- **MDVRP web app** : A Genetic algorithm based Multi Depot Vehicle Routing Problem solver using Emscripten.

## EDUCATION

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University of Nevada – Reno, Ph.D., CSE, 2020 – ongoing (expected:2023)

University of Nevada – Reno, Master's, CSE, 2018 - 2020– (CGPA 3.97/4.0)

Khulna University, Bachelor's, CSE, 2012 - 2016– (CGPA 3.5/4.0)