NHI CHUNG

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SUMMARY

Software engineer with experience working in game development, AR/VR, and geospatial technology. Experience with R&D, prototyping, AI (deep learning), working with game engines (Unity/Unreal), and developing a proprietary game engine. History of successfully developing features and apps on multiple platforms including Windows, OpenXR, Oculus, Android, and iOS.

SKILLS

Technical

- Working knowledge of Unity C#, C++, AR/VR
- Experience with GIS, remote sensing, mapping APIs (Mapbox, Carto, Google Map)
- Familiar with Agile, Scrum, Git, PlasticSCM, Jira, Perforce

EDUCATION

Aug 2016 - May 2018 California State University, Fullerton

Fullerton, CA

Master of Science

Software Engineering (MSE) - GPA 3.83

Sep 2013 - Jun 2015

University of California, Santa Barbara

Santa Barbara, CA

Bachelor's Degree

Geography - Geographic Information Science (GIS) - GPA 3.66

EXPERIENCE

Jun 2024 - Present

Crazy Green Earth

Remote (US)

Owner & Founder

- Develop and maintain e-commerce website (https://crazygreenearth.com) which sells environmental-friendly, sustainable, and biodegradable products that reduce plastic waste
- Work with domestic and oversea suppliers to purchase inventory and packaging
- Manage product shipments and online marketing campaigns

Oct 2022 - May 2024

Raytheon

Remote (US)

Principal Software Engineer

- Develop military training application using Unity and Unreal game engines
- Analyze project codebase and contribute to a networking and architecture upgrade plan
- Implement new software features per customers' requirements
- Document team coding standards, project requirements, source control workflow, new developer guide, etc.

Mar 2021 - Aug 2022

HAVIK

Remote (US)

Software Engineer

- Startup in the military AR/VR training space
- Develop AR & VR simulations for military training using the Unity game engine
- Implement features including networking, voice chat, user login system, gameplay
- Use technology such as Unity C#, AR Foundation, open source libraries, ThreeJS, Distributed Interactive Simulation (DIS)
- Create prototypes for experimental features and applications for Windows and Android

Jul 2019 - May 2020

NextVR (startup acquired by Apple 05/2020)

Newport Beach, CA

Rapid Prototype Engineer

- Use Swift and AVFoundation to create an iOS application that synchronizes multiple iPhone cameras for stereoscopic/VR capture
- Integrate new functionalities into in-house game engine for VR using C++
- Utilize open source libraries to: access VR hardware (OpenVR), render 3D graphics, and play audio for in-house game engine development
- Use Unity game engine to develop prototypes for AR/VR platforms

Dec 2018 - Jun 2019

Motion Scientific

Greater Los Angeles Area

R&D Software Engineer: Augmented Reality

- Startup funded by the National Science Foundation (NSF) for phase I
- Research and develop an augmented reality (AR) application for physical rehabilitation
- Utilize Unity, AI (deep learning Tensorflow) and other technologies for Android and iOS development

Dec 2015 - Jan 2017

City of San Jose

San Jose, CA

Geographic Systems Specialist II

- Build web maps using Google Maps API, Google Apps Engine, Carto API, and JavaScript
- Help migrate enterprise GIS database, create and publish public facing GIS REST services for basemaps, utilities, and aerial imagery

PROJECTS

Fantasy Islands Exploration Game

- An exploration game created with Unreal 5 game engine.
- Gameplay includes exploring floating islands and getting past obstacles such as moving platforms, shooting barrels, rolling boulders, and scaling castle wall.
- Project demo link: https://nhibchung.github.io/project/fantasylslands/fantasylslands.html
 Matching Cards Game
 - A simple card game created with Unity for WebGL that can be played in a browser.
 - This project was for me to learn more about using design patterns in Unity.
 - Check out the project on my Github page.
 - Project demo link: https://nhibchung.github.io/project/matchingCards/index.html

Helicopter Simulation Oculus VR Game with 3D Map Based on Real-world Coordinates

- Created with Unity3D, C#, and WRLD SDK(for 3D maps)
- Gameplay includes piloting the helicopter to waypoints following a navigational arrows
- Project link: https://nhibchung.github.io/project/helicopterVR/helicopterVR.html

Poke-A-Mole Augmented Reality(AR) Game

- AR game created with Unity3D, C#, and Vuforia AR Groundplane
- Project link: https://nhibchung.github.io/project/pokeAMoleAR/pokeAMoleAR.html

Oculus Rift VR Exploration Game

- Immersive VR game level created with Unity3D in C#
- Uses the Oculus Avatar SDK hand features for Touch to interact with the environment
- Project link: http://nhibchung.github.io/project/oculusExploration/oculusExploration.html

VR Labyrinth for Android Google Cardboard – based on a Udacity project

- VR game created with Unity3D in C#
- Project link: http://nhibchung.github.io/project/vrLabyrinth/vrLabyrinth.html