ALI SHAHIDI

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EDUCATION

University of Calgary

Expected December 2023

Master of Software Engineering (GPA: 4/4.00)

Calgary, AB

• Received full departmental graduate funding and international graduate tuition award.

University of Tehran

July 2020

B.Sc. in Computer Engineering (GPA: 17.24/20.00)

Tehran, Iran

• Received best undergraduate project, and two Faculty of Engineering Fellowship Awards.

PROFESSIONAL EXPERIENCE

Graduate Research & Teaching Assistant - Software Engineer

January 2021 - December 2023

Calgary, AB

University of Calgary - Key tech stack: Unity, MRTK, C#.

ssistive XR

- Led a project in the field of assistive XR technology. Managed a comprehensive study on assistive XR technology. Pioneered a collaborative effort involving professionals from diverse backgrounds, including psychologists, to conduct an in-depth study.
- Unity technical support for a 2-day Tech-Hackathon in collaboration with the Southern Alberta Section IEEE Special Interest Group on Humanitarian Technology (SIGHT).

Graduate Teaching Assistant - Software Engineer

January 2021 - December 2023

University of Calgary – Tech stack: C, C++, Python, SQL, Spark, Machine Learning

Calgary, AB

• Software Requirement Engineering, Object-Oriented Programming, Scalable Data Analytics, Software Engineering Practices for Data Management, and Programming Fundamentals.

PROJECTS

AI/ML/CNN Course Projects | Python, PyTorch, TensorFlow, Pandas, Numpy 😱

- Implementation of seven projects on different artificial intelligence topics such as Search Algorithms, Genetic Algorithms, Classification, Multi-layer Neural Networks, and Regression. All these projects were implemented in Python and Jupyter Notebook.
- **Implementation** of five projects on different machine learning topics such as Image Classification with CNN and FCN, Auto-encoder model to denoise an image dataset, U-net model for signal denoising,
- Classification of Driving Behaviours Based on Deep Learning Algorithms like CNN and LSTM.

HoloType | Unity, C#, MRTK, Scrum, Git 🗘

- Led, designed, developed, and maintained HoloType, a 3D interactive educational application with Augmented Reality, utilizing HoloLens 2.
- Added multiplayer option using Photon library to synchronize holograms, resulting in 25% improvement in overall user experience.
- Conducted three phases of user studies and refined the application based on feedback for subsequent phases to improve usability of the application.
- Developed a modular application. Implemented different features and customization options to enhance the user experience, leading to a 20% increase in user satisfaction and a 35% reduction in support requests from caregivers.
- Managed version control with Git, utilized Jira for progress tracking, documented using Confluence and LaTeX; integrated AWS text-to-speech API for closed captioning and voice customization, and facilitated lesson downloads through REST APIs.

Complete C# Unity Game Developer 3D Course | Unity, C#, Git 🗘

- Engineered realistic terrains, timeline animations, and applied post-processing effects in Unity; optimized path finding algorithms and grid systems to enhance gameplay experience and performance. Leveraged Unity's powerful features, including particle system and Cinemachine, to create visual effects and captivating game sequences.
- · Independent game demos:
 - Realm Rush: In this strategy tower defense game, defend the realm by strategically placing defense towers and destroying the enemy's military forces.
 - Space Attack: Pilot the spaceship to eliminate the enemy forces.
 - Rocket Boost and Obstacle games: Rocket Boost and Obstacle games: Avoid different types of obstacles and reach the finish point.

CERTIFICATIONS

Complete C# Unity Game Developer 3D | Udemy

September 2023

Skills

Languages: C#, Unity, Unity3D, C, C++, Python, Java, HTML, JavaScript

Databases: MySQL, SQL

Operating Systems: Linux, Windows

Tools: Git, MRTK, Scrum, Jira, Confluence, Latex, Docker, Selenium

Data Science & Machine Learning: TensorFlow, PyTorch, Pandas, NumPy, Matplotlib, Apache Spark