Miles Versaw

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EDUCATION

B.S. COMPUTER SCIENCE WITH HONORS | Texas A&M University, College Station

Diploma Expected May 2023 | GPA 3.79/4.00
Relevant Courses:
- Data Structures and Algorithms • Computer and Network Security • Computer Graphics • Computer Animation

WORK EXPERIENCE

SOFT INTERACTION LAB | AR/VR Software Developer

Aug 2021 - Present | Texas A&M Visualization Department
Working in a self-led environment for **Dr. Hwaryoung Seo** to create Virtual Reality and Augmented Reality applications for education and research.
- Integrated eye tracking into a VR classroom application for Vive using the SRanipal SDK
- Designed a VR Capillary Blood Glucose Monitoring scenario for the Meta Quest 2 in collaboration with the TAMU Nursing program
- Developing an AR Chat Bot Companion for the Hololens 2 as part of the TAMU Innovation[X] Program

SKILLS

PROGRAMMING LANGUAGES
Proficient: C++ • Python • C# • JavaScript   Familiar: Java • PostgreSQL • NoSQL

TOOLS/FRAMEWORKS/LIBRARIES
Unity3D • MongoDB • Firebase • Node.js • OpenGL/GLSL • SDL2 • LaTex

PROJECTS

RAY TRACER
- Created a Ray Tracer from scratch using C++ and the GLM library.
- Supports Blinn-Phong shading with multiple lights, shadows, and reflections

GIT-AWAY VACATION PLANNER
- A flexible hotel, flight, and vacation planning website. Used Node.js as the framework and Firebase for user authentication
- Leveraged the Amadeus flight and Hotel.com apis for presenting booking options. Used Socket.IO to create a chatroom for live communication

HACKATHON PROJECTS
RE-cycle | Winner of the 'Environmental' category | TAMUmake 2021
- A basic automated recyclables sorter using a Convolutional Neural Network in PyTorch and a motorized sorting mechanism
- Created the touchscreen GUI with Pygame and communications between the arduino and Camera setup.

LYFE | TAMUHack 2022
- An interactive health and self-help app designed to help users save money and encourage fitness.
- Managed the MongoDB database and connected the Node.js and React components of the website.