Muhammad Zaid Kamil

zaidmuscat@gmail.com | (424) 382-6112 | https://www.linkedin.com/in/zaid-kamil/ | mzaidk.net | Harbor City, CA

EXPERIENCE

Software Researcher Sep 2023 - Present
CSUDH Graduate Thesis *Carson, CA*
- Developed a real-time AR/VR campus map prototype that utilizes Azure SQL Database to integrate IoT sensor data to Unity engine, achieving 70% accuracy of real-time data visualization of on Quest device
- Designed high-quality responsive XR 3D assets of Map model using Unity, and website (www.myzmap.com), resulting in an improvement in user performance and increase in user engagement

AR/VR Researcher Jul 2024 - Present
Physics Department *Carson, CA*
- Developed a VR application using Unity3D that integrates physics dynamics, achieving student user learning rate through simulations
- Teaching Assistant workshops for high school students to develop Physics VR projects by utilizing Unity, Blender and Meta Quest HMD

AI & ML Engineer Intern May 2024 – Aug 2024
MindHome Inc *Remote*
- Integrated VR HMD with Robotic Haptic Glove using algorithms, achieving success rate in detecting and mapping hand movements

IT Student Assistant Feb 2022 – Sep 2024
Learning Spaces - CSUDH *Carson, CA*
- Troubleshooting classroom hardware equipment that involves PC, panels, projector, and switches boosting system uptime by 50%
- Inputted data-related queries, issues, and requests by faculty into ticketing systems thus improving user resolution rates

Advanced Coders – AI Training Jun 2024 - Jul 2024
Outlier AI *Remote*
- Conducted detailed evaluations of Generative AI chat bot prompts, assessing accuracy, fine tuning prompts, and functionality based on the given requirements

Mixed Reality Student Researcher Aug 2018 – Dec 2021
AMIRA Research - TAMUQ *Doha, Qatar*
- Developed a desalination plant prototype using Unity3D, added application interactivity utilizing MR Toolkit, visual scripting, C# programming Microsoft HoloLens that trains students to build a that utilized C# programming and Unity3D development
- Tested the deployed application on Microsoft HoloLens with 15 STEM students, capturing user's learning feedback, resulting in a 20% improvement of training compared to classroom learning and published the results in two research journals

Utilities Field Engineer Sep 2020 - Sep 2021
Qatar Petrochemical Company *Messaied, Qatar*
- Collaborated with Process Engineers to diagnose startup and shutdown issues of equipment and develop training and process diagrams for operating process equipment

EDUCATION

Master of Computer Science, California State University, Dominguez Hills Expected May 2025
Cyber Security Fundamentals Certificate *GPA: **3.83***
Coursework: *Software Engineering, Information Security, Programming Languages, Networking, Data Structures, Operating Systems*

Bachelor of Chemical Engineering, Texas A&M University 2017 – 2020
Undergraduate Research Scholar
Coursework: *Process Dynamics & Control, Process Safety Engr, Thermodynamics, Mass & Heat Transfer, Process Integration Systems*

SKILLS

Technical Skills	AR/VR Development (3yrs), Game Development (1yr), Website Design (2yrs), Source Control (1yr), Debugging (2yrs), Software Testing (2yrs), UI/UX Design (2yrs), Reinforcement Learning (1yr), Fine Tuning, Prompt Engineering (1yr)
Soft Skills	Collaboration, Analytical, Problem solving, Adaptability to new technologies, Emotional intelligence, Research and publication
Tools	Unity (4yrs), C# (2yrs), C++, Java (2yrs), Python (1yr), Azure (1yr), AWS (1yr), Git (1yr), MySQL (1yr), SwiftUI (1yr), OpenAI (1yr)

PROJECTS [GitHub: https://github.com/ZaidKamil1574]

VR Oil Rig Plant: Designed and animated a VR offshore oil rig to train students the extraction process, utilizing SimLab software and C#
IoT Sensor Network: Utilized reinforcement learning algorithms for optimal root path from start to target node using python and MARL
Dining Web Application: Designed a system to streamline order to cater student's dietary needs, incorporated UI/UX design principles
Computer Vision: Utilized C++ and python via for Face Detection, Object Detection, and facial recognition in trained images
Push Notification System: Utilized Apple push notifications console to test user notifications in application
Deep Learning: Utilized TensorFlow and Matlab for Classification of Images, feature extraction, and incorporating new data sets

PUBLICATIONS

- *Ghazali, S.;Abdalla, H; **Kamil, M.Z**.;Kakosimos, K.;Hodges,A. Development of an Educational Mixed Reality Game on Water Desalination Plants*
- *Ghazali, Sofian; Hussein, Aisha; **Kamil, Zaid** (2020). Implementing VR/AR Systems for Insight Into Water Desalination Plant*

CERTIFICATIONS

Cyber Security Fundamentals Certificate **– CSUDH |** Career Essentials in Generative AI – **Microsoft |** IBM Z Xplore Concepts – **IBM**
iOS 15 Development Training **– LinkedIn |** AR Development Techniques – **LinkedIn**

LEADERSHIP

AR/VR Club **– President |** IBM Z Systems – **Ambassador |** Muslim Student Union – **Treasurer|** SPE **– Outreach Coordinator**