Muhamad Zaid Kamil

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EXPERIENCE

Software Developer   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, conducted HMD debugging, achieving 95% accuracy of real-time data visualization on Meta Quest Headset
- Designed high-quality responsive 3D model, and website (www.myzmap.com), resulting in a 40% improvement in user engagement

AR/VR Researcher   Jun 2024 - Present
Toro Auxiliary Partners   *Carson, CA*
- Developed a VR application using Unity3D that integrates physics dynamics, achieving a 70% user learning rate through simulations
- Led workshops for high school students to develop Physics VR projects and tools by utilizing Unity, Blender and Meta Quest HMD

AI & ML Engineer Intern   May 2024 - Sep 2024
MindHome Inc   *Remote*
- Integrated VR HMD with Robotic Haptic Glove using algorithms, achieving an 80% success rate in detecting and mapping hand movements

Information Technology Student Assistant   Feb 2022 - Present
Classroom Learning Spaces - CSUDH   *Carson, CA*
- Troubleshooting classroom hardware equipment that involves PC, panels, projector, and switches, boosting system uptime by 50%
- Input data-related queries, issues, and requests by faculty into ticketing systems thus improving resolution rates by 75%

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

Mixed Reality Student Researcher   Aug 2018 – Dec 2021
AMIRA Research - TAMUQ   *Doha, Qatar*
- Developed a working Mixed Reality prototype on Microsoft HoloLens that trains students to build a desalination plant 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 compared to classroom learning, published and presented the results in two research conferences

Utilities Field Engineer   Sep 2020 - Sep 2021
Qatar Petrochemical Company   *Messaied, Qatar*
- Worked closely 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, Human Computer Interaction, Programming Languages, Networking, Data Structures, Operating *Systems*
Bachelor of Chemical Engineering, Texas A&M University   2017 – 2020

SKILLS

Technical Skills	Project management, AR/VR, Innovative solutions, Software development, Electronic security systems, Hardware installation, Engineering design, VCS, Debugging, Software testing, UI/UX, Graphic design, Concept operations, System requirements,
Soft Skills	Leadership, Adaptability, Collaboration, Ingenuity, Creativity, Problem solving, Communication, Presentation, Research,
Tools	Unity, C#, C++, Java, Python, Javascript, Azure, AWS, Git, MySQL, OpenCV, GPT, Lens Studio, OpenAI, Blender, Docker, Jupyter

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#
Augmented Reality Menu App: Designed an Menu UI application which displays Food dishes in AR upon selection, utilizing Unity and ARcore
Project EDITH: Integrated OpenCV in Unity to replicate AR smart glasses function, incorporated face recognition and object detection
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

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 & AWARDS

Cyber Security Fundamentals Certificate **– CSUDH |** Undergraduate Research Scholar - **TAMU|** IBM Z Xplore Concepts – **IBM**
Career Essentials in Generative AI – **Microsoft |** 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**