

Michael Yuen

Myyuen@uci.edu
<https://luxebo.github.io>

Education

-
- | | | |
|---|--|-----------------|
| August 2019-May 2021 | University of Southern California | Los Angeles, CA |
| <ul style="list-style-type: none">• Masters of Science in Computer Science; GPA: 4.00, MS Honors• Relevant Coursework: databases, algorithms, game machine learning, mobile games, game network architectures, web tech• Grader for software engineering, graduate databases, programming systems, mobile games, Lead Grader and TA for AI | | |
| August 2016-June 2019 | University of California, Irvine | Irvine, CA |
| <ul style="list-style-type: none">• Bachelors of Science in Computer Science specializing in Intelligence Systems; GPA: 3.79, Cum Laude• Relevant Coursework: databases, operating systems, artificial intelligence, data structures, analysis of algorithms, machine learning, game development, information retrieval, graph theory, computer vision | | |

Work Experience

-
- | | | |
|---|--|-----------------|
| October 2023-Present | Robot Sea Monster Games Tech Lead/Unity Developer | Los Angeles, CA |
| <ul style="list-style-type: none">• Working in a game studio that builds client projects, which software architecture, managing, and Unity are key role functions• Led a team of developers to build a social media application on Unity for a client, functions include building the architecture, scoping and delegating tasks for junior devs, estimating time per task, code reviews, and writing tech documentation• Helped build a project which is an LLM escape room, building basic gameplay mechanics to support the LLM | | |
| December 2022-September 2023 | Game of Silks Unity Developer | Los Angeles, CA |
| <ul style="list-style-type: none">• Worked in a metaverse/NFT/crypto startup that wants to use NFTs of real horses to let users gamble in real horse races• Built a dialogue system, created scene transitions, saved scenes to asset bundles on AWS S3, and optimized for WebGL• Worked with an art team designing materials, lighting, shaders, models, animations, rigging for Unity• Ingested 10000 real horses from the jockey club API through using AWS lambda functions and inserting into a SQL table• Created an ASP.NET API to allow users to buy land NFTs and access the SQL database through a Three.js frontend• Used Moralis to allow users to mint NFTs using a smart contract, connecting to their Metamask wallet | | |
| September 2022-December 2022 | Norvoc Bioscience Software Developer | Irvine, CA |
| <ul style="list-style-type: none">• Worked in a biotech company. Project is focused on data visualization and making the data interactive from ML models• Built this project using React, Node.js, Mongodb, Synology servers, and Three.js for visualization• Used Three.js to create generalized cylinders, along with using open GLSL to write shader code for a gradient | | |
| July 2021-August 2022 | Microscape Full Stack/Unity Developer | Los Angeles, CA |
| <ul style="list-style-type: none">• Worked in a startup in biotech focused on a Unity product that allows users to add and render medical data as a 3D image• Implemented multiplayer functionality with rooms and multi-user interaction for the application with Photon• Adjusted the volume renderer algorithm and worked on different shader, cropping, filtering adjustments to the image• Adjusted sliders to work on VR, including annotations using a brush tool• Used AWS Lambda to save and load filtering/cropping/shader settings that are set for a specific image• Added a multi asset feature, allowing for users to load in multiple 3D image assets and change their transforms, filters, etc | | |

Projects

-
- | | |
|--|------------------------------|
| January 2021-May 2021 | Inside Job |
| <ul style="list-style-type: none">• Used the Unity Engine and the Photon network architecture to create a simple social deduction game• Built a lobby system using Photon's Room properties, allowing players to create and join games hosted in different locations• Built a better dead reckoning system for synchronization of game objects for moving, shooting, and interacting with objects• Built a proximity text and voice chat from Photon's Chat and Voice API | |
| April 2019-June 2019 | Object Reconstruction |
| <ul style="list-style-type: none">• Used Python's OpenCV and Numpy libraries to generate a mesh from the images taken from scanners• Used camera calibration to determine camera parameters, generated a baseline mesh from triangulation• Finalized a mesh from MeshLab using alignment and poisson surface reconstruction | |

Skills

-
- **Languages:** Proficient: Python, C#; Familiar: Java, SQL, HTML, CSS, Javascript; Basic: C++, C
 - **Systems and Software:** Windows, Linux, Oracle VM, Visual Studio, Jupyter, Numpy stack, Unity, Git, Android Studio, Firebase, NodeJS, Flask, Azure, GCP, MongoDB, Photon, Oculus VR, React, Three.js, Moralis, ASP.NET
 - **AWS:** Lambda, Cloudwatch, S3, Dynamodb, SQS, SNS, Eventbridge, Cloudfront, Parameter Store