

# Michael Yuen

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<https://luxebo.github.io>

## Education

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

## Work Experience

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| December 2022-September 2023   | <b>Game of Silks Unity Developer</b>         | Los Angeles, CA |
| <ul style="list-style-type: none"><li>• Working in a metaverse/NFT/crypto startup that wants to use NFTs of real horses to let users gamble in real horse races</li><li>• Built a dialogue system, created scene transitions, saved scenes to asset bundles on AWS S3, and optimized for WebGL</li><li>• Worked with an art team designing materials, lighting, shaders, models, animations, rigging for Unity</li><li>• Ingested 10000 real horses from the jockey club API through using AWS lambda functions and inserting into a SQL table</li><li>• Created an ASP.NET API to allow users to buy land NFTs and access the SQL database through a Three.js frontend</li><li>• Used Moralis to allow users to mint NFTs using a smart contract, connecting to their Metamask wallet</li></ul> |  |                 |
| April 2022-December 2022   | <b>Prism Unity Developer</b>                 | Los Angeles, CA |
| <ul style="list-style-type: none"><li>• Working in a startup (part time) in biotech focused on a product using IoT to interact with a Unity game application</li><li>• Prototyped games including a new minigame involving shooting a slingshot with breathing rate of a Polar waistband</li><li>• Worked on a breathing game that used a chromium web browser to watch Netflix, Spotify, etc while gathering medical data</li></ul>   |  |                 |
| September 2022-December 2022   | <b>Norvoc Bioscience Software Developer</b>  | Irvine, CA      |
| <ul style="list-style-type: none"><li>• Working in a biotech company. Project is focused on data visualization and making the data interactive from ML models</li><li>• Built this project using React, Node.js, Mongodb, Synology servers, and Three.js for visualization</li><li>• Used Three.js to create generalized cylinders, along with using open GLSL to write shader code for a gradient</li></ul>   |  |                 |
| July 2021-August 2022  | <b>Microscope Full Stack/Unity Developer</b> | Los Angeles, CA |
| <ul style="list-style-type: none"><li>• Worked in a startup in biotech focused on a Unity product that allows users to add and render medical data as a 3D image</li><li>• Implemented multiplayer functionality with rooms and multi-user interaction for the application with Photon</li><li>• Adjusted the volume renderer algorithm and worked on different shader, cropping, filtering adjustments to the image</li><li>• Adjusted sliders to work on VR, including annotations using a brush tool</li><li>• Used AWS Lambda to save and load filtering/cropping/shader settings that are set for a specific image</li><li>• Added a multi asset feature, allowing for users to load in multiple 3D image assets and change their transforms, filters, etc</li></ul>                        |  |                 |

## Projects

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

## Skills

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- **Languages:** Proficient: Python, C#; Familiar: Java, SQL, HTML, CSS, Javascript, C++
  - **Systems and Software:** Windows, Linux, Oracle VM, Visual Studio, Eclipse, Jupyter Notebooks, Numpy stack, Unity, Git, Android Studio, 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