

# Jack Yang

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## Summary

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Mid-level software engineer with deep experience in C++, C#, and full-stack web development. Delivered performance-critical features for Fuzor, a 3D construction platform, cutting geometry sync times from Autodesk products by up to half. Developed a lightweight React companion app for Fuzor for the 2026 release, using technologies all along the stack, from designing MySQL database schema, to creating a RESTful Java API, to implementing React UX.

## Professional Experience

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### Kalloc Studios, Fuzor

Jul 2023 - Jul 2025

*Software Engineer*

*Carlsbad, CA*

- Developed new features on Fuzor, 3D software built in an original graphics engine, to support customers throughout the construction and engineering industry.
- Optimized legacy C++ code using strategies like struct packing and fixed memory allocation, resulting in improved runtime performance across the board.
- Helped create Fuzor 2026 Web Viewer, implementing a React app hosted on AWS, which allowed customers to upload user files to the cloud and visualize 3D geometry in a lightweight web application.
- Designed and implemented a MySQL database and RESTful Java API to facilitate smooth file upload and easy sharing between Fuzor's desktop and web applications.
- Refactored Fuzor's C# integrations with Autodesk Revit, Navisworks, and other 3D CAD software, achieving up to 100% faster sync speeds with optimized scene traversal.
- Built an in-house Issue Tracker tool with React, allowing management and QA to track open bugs and see historical data at a glance.

### FoundrySix

Sep 2021 - Jul 2023

*Unity Developer*

*Los Angeles, CA*

- Implemented core gameplay systems for ARealm, a fantasy AR MMORPG, using C# and Unity, which enabled the release of the game's Alpha and secured early user testing.
- Designed and implemented algorithms in C# for features like level randomization and enemy AI to meet game design directions and establish an engaging core play loop.
- Prototyped AR experiences in Meta's Spark AR Studio to be presented at AR/VR investor events and conferences, exploring what was possible in the augmented reality space.
- Troubleshoot and published mobile test builds of ARealm for both iOS and Android, inviting and responding to player feedback to create the best user experiences possible.

## Projects

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### Monte Carlo Path Tracer | [View Report](#)

Jan 2021 - Mar 2021

- Robust ray-tracer graphics program made for Advanced Computer Graphics, simulating realistic lighting in various 3D scenes. Study in indirect lighting, material rendering, and modern lighting standards.

## Education

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### University of California, San Diego

Oct 2018 - Jun 2022

*B.S., Computer Science*

*San Diego, CA*

- **GPA:** 3.65
- **Achievements:** Minor in English Literature, Design Director at ACM UCSD (2020)
- **Coursework:** Data Structures and Algorithms, Advanced Computer Graphics, Web Design and Development, Software Engineering, Interaction Design

## Skills

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- C++, C#, React, MySQL, JavaScript, Java, HTML, CSS, Python, OpenGL, AWS (EC2, Lambda, S3), Restful API, Database Development, AWS, Git, GitHub, Game Development