

Nathaniel Wilkens

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Hi there, I am a Freelance Programmer, Media Server Programmer and Engine Operator specialized in live events, AR, XR and real-time interactive and immersive experiences. My goal is to create interactive and immersive experiences that amplify art utilizing tech at the bleeding edge.

Skills

Programming
Media Servers
Project Management
Virtual Production
Full Stack Web Dev
Cinematography

Programs

Disguise
Stage Precision
Touchdesigner
Unreal Engine 4/5
Pixera
Adobe CC

Scripting

JavaScript
Node.js
HTML & CSS
Lua
Python
SQL

Education

Miami University

Bachelors of Music in Vocal Performance
2017 – 2021
Co-Major in Interactive Media Studies
2017 – 2021

Work experience

Freelance

Media Server Programmer/ Programmer/Engine Operator
2023-Present

I am currently working as a Freelance Programmer, Media Server Programmer and Engine Operator. I specialize in live events, AR, XR and real-time interactive and immersive experiences. My goal is to create interactive and immersive experiences that amplify art utilizing tech at the bleeding edge.

Miami University

MUXR Stage Manager/Technical Director
2023-Present

I am also currently working at Miami University maintaining and managing their new XR stage with Ben Nicholson. I work directly with students to teach and mentor them on how to use and maintain media servers and the technology that goes into running a virtual production stage.

Work at XR Studios

Creative Technologist
2021-2023

My previous job was at XR Studios as a creative technologist focusing on XR and other real-time, interactive, and immersive technologies. As part of my daily tasks, I created custom apps and develop workflows in an XR/ICVFX environment. I also handled the programming of our volume and the calibration of cameras in our space. We get to make magic every day.

Collaboration with XR Studios

Project Manager
2021

The final semester of my senior year, I led a capstone working with the LA based XR Studios as a project manager to create demo content and tools for their XR workflows.

The Gathering at the Poet's Shack

Project Manager
2020

In the Fall of 2020, I acted as the project manager and one of the lead developers for an interactive and immersive Covid-safe event on the campus of Miami University honoring Percy Mackaye and the Spoken word. The gathering was a multi-media, multi-platform experience that made use of augmented reality, projection mapping, virtual reality and user interaction in our integrated webapp to create a one-night experience of a lifetime.

Miami University Opera Theater

President and Director of Marketing, Branding and Content
2019 - 2021

I was given the opportunity to re-brand the opera for the 2019-2020 season. I ran all our social media, made video content and rebuilt the website from the ground up. We started the year with no social media channels and by the end of it, we had amassed 400+ new followers, 8000+ video views, and 15,000+ Post views as well as boosting ticket sales by almost triple the previous years numbers.

Miami University, ETBD Department

Student Assistant/Tutor
2019 - 2021

Sophmore to Senior Year at Miami, I worked as a tutor and teachers assistant for the Emerging Technology in Business + Design department at Miami University. I tutored primarily web design/development and the adobe creative suite.

Credits

key: l = leadership , c = concepting , t = technology , w = web development, v = video work

Games of the Future	Bright! - Lead Stage Precision Programmer	2025	(l,t,v)
PRJ Turkey	MSG Sphere - Media Server Programmer	2025	(l,t,v)
MSF3	Silent Partenrs Studio - Disguise Programmer>Show Caller	2025	(l,t,v)
PGAT	Stage Precision - Stage Precision Programmer/Trainer	2025	(l,t,v)
D&D: The Twenty Sided Tavern	Disguise Programmer	2025	(l,t,v)
MCAAD	4Wall - Stage Precision/Disguise Programmer	2025	(l,t,v)
Disguise Trainings	Disguise - Trainer	2024/2025	(l,t,v)
UFCM	Silent Partners Studio - Technical Coordinator	2024	(t,v,c,l)
MSF2+MSSP	Silent Partners Studio - Technical Coordinator	2024	(t,v,c,l)
Blink Cincinnati	&FRIENDS Studio - Technical Director	2024	(t,v,c,l)
Esports World Cup	Bright! - Lead Stage Precision Programmer	2024	(t,v,c,l)
KMA: Power of Love Gala	NEP Sweetwater - Disguise Programmer	2024	(t,v)
McVey Grand Opening	Miami University - Virtual Screens Producer	2024	(t,v,c,l)
MSNY	Silent Partners Studio - Technical Coordinator	2023	(t,v,c,l)
MSNF	Silent Partners Studio - Technical Coordinator	2023	(t,v,c,l)
MSG0 + MSF1	Silent Partners Studio - Technical Coordinator	2023	(t,v,c,l)
DWTS Cold Open + Disney100	XR Studios - Media Server Programmer	2023	(t,l)
One Nation Under Love	XR Studios - Media Server Programmer	2023	(t,l)
Let's Go, William J.Batvin	XR Studios - Media Server Programmer	2023	(t,l)
PRJ Rome	XR Studios - Media Server Programmer	2023	(t,l)
PRJ The POC	XR Studios - Real Time Content Integrator	2023	(t,l)
Riot VCT Game Changers 2022 Berlin	XR Studios - Lead Media Server Programmer	2022	(t,l)
PRJ Mayo	XR Studios - Engineering support	2022	(t,l)
PRJ Notorious	XR Studios - Creative Technologist	2022	(t,l)
Riot VCT 2022 Istanbul	XR Studios - Media Server Programmer/Operator, API Specialist	2022	(t,w)
PRJ Jiminy	XR Studios - Media Server Programmer	2022	(t,l)
Riot VCT M2 2022 Copenhagen	XR Studios - Media Server Programmer/Operator, API Specialist	2022	(t,w)
PRJ Quickdraw	XR Studios - Media Server Programmer	2022	(t)
Wiz Kid	XR Studios - Media Server Programmer	2022	(t)
Near Future	XR Studios - Media Server Programmer	2022	(t)
Star Guardian	XR Studios - Media Server Programmer	2022	(t)
Riot VCT M1 2022 Reykjavik	XR Studios - Media Server Operator	2022	(t)
Custom TD apps for DandiDoesIt	Freelance	2022	(t,c,v)
Proud Family: Louder and Prouder release	XR Studios - Media Server Programmer	2022	(t)
Tiktok Cabello Pentatonix Holiday Special	XR Studios - Real Time Content Integrator	2022	(t)
PRJ Asher Monroe	XR Studios - Creative Technologist	2022	(t)
Riot VCT 2021 Berlin	XR Studios - Media Server Tech	2021	(t)
Leon Bridges: GMA and Jimmy Fallon	XR Studios - Media Server Tech	2021	(t)
Hydrobox Jukebox Collaboration with XR Studios	Miami University Opera Theater	2021	(l,c,v,w)
Men's Glee Christmas Concert	ETBD department and Miami University Fringe Festival	2020	(l,c,t,w,v)
The Gathering at the Poet's Shack	Freelance	2020	(l,c,v)
Her em Iteru	Freelance	2020	(l,c,v)
The Marriage of Figaro	Miami University Opera Theater	2020	(l,c,w,v)
Eagle Scout	Boy Scouts of America	2016	(l)