

# Nathaniel Wilkens

nate.j.wilkens@gmail.com  
nate\_wilkens@hotmail.com

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