

Aakarsh Singh

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EDUCATION

New York University	May 2025
B.A. in Interactive Media	GPA: 3.92/4.0
Minors in Computer Science, Sound-Music Computing and Art History	
Relevant Coursework: VR/AR Development, Web App Development, Algorithms, Data Structures, Discrete Mathematics, Natural Language Processing, Calculus, Game Development	

EXPERIENCE

Callback	May 2024 - December 2024
Fullstack Software Engineer	Tokyo, Japan/Remote
<ul style="list-style-type: none">Deployed a customer main site with a user leader-board, leading to an increase in weekly active users from 25 to 250 over a 3 month period using Next.js, Typescript, Express.js and Firebase.Designed and implemented a scalable social networking API , facilitating in-app user profile creation and friend connections, which boosted app engagement by 100% within one month.Engineered an enterprise dashboard that streamlined data visualization for clients, integrated Stripe payouts and sent weekly automated reports, resulting in a 200% overall increase in partner retention.	
NYU Tandon @ The Yard	
June 2024 - August 2024	
Spatial Computing Researcher	
<ul style="list-style-type: none">Designed and integrated advanced motion capture and volumetric capture systems, enhancing production efficiency by 35% during a three-month research project focused on augmented/virtual reality productions.Independently developed and optimized multiple immersive Unreal Engine simulations and environments, resulting in a final production and prototype presented to an audience of over 200 participants at the NYU undergraduate research conference.	

NEEEU Spaces GmbH	May 2024 - July 2024
Creative Technologist	Berlin, Germany
<ul style="list-style-type: none">Developed and deployed an augmented reality advertisement for a perfume brand, achieving a 20% increase in customer engagement compared to previous campaigns featured in BMW's annual lifestyle magazine.Crafted assets in Cinema4D and wrote custom shader code, resulting in an integrated pipeline that reduced rendering time by half while enhancing visual quality for the final project assembled in Meta Spark Studio.Created a Unity prototype for an innovative spatial audio adventure game devised for the visually impaired, leading to successful playtesting feedback and over 1000 downloads after a month of release.	
PROJECTS	
"Real" Art	
November 2022	

"Real" Art	November 2022
<ul style="list-style-type: none">Developed an AI-based installation for The Louvre Abu Dhabi using DALL-E 2 API, Next.js, Express.js and Firebase, to gauge public perception and generate ethical discussions around AI-generated artworks.	

TECHNICAL SKILLS

Programming Languages: Javascript, Python, C++, C#, OpenGL (WebGL), HLSL
Frameworks & Libraries: Typescript, Next.js, React, React Native, Vue, SCSS, Node.js, Express, Firebase, Docker, MongoDB, A-Frame, ml5.js, p5.js Three.js, WebSockets, Processing, Arduino, Automatic1111, ComfyUI
Software: Figma, Unreal Engine, Unity, TouchDesigner, Maya, Cinema4D, RedShift, Blender, Max/MSP, Jitter, Meta Spark Studio, Photoshop, Premiere Pro, Illustrator, AfterEffects, InDesign, Substance 3D Painter, Ableton