

# Aakarsh Singh

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## EDUCATION

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New York University Abu Dhabi

May 2025

B.A. in Interactive Media

GPA: 3.92/4.0

Minors in Computer Science, Sound-Music Computing and Art History

Abu Dhabi, UAE

**Relevant Coursework:** VR/AR Development, Web App Development, Algorithms, Data Structures, Discrete Mathematics, Natural Language Processing, Calculus, Game Development

## EXPERIENCE

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Callback

May 2024 - December 2024

Fullstack Software Engineer

Tokyo, Japan/Remote

- 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

New York City, USA

- 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

- 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

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"Real" Art

November 2022

- 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

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**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