

Nathaniel Joseph

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EDUCATION

University of Miami, Coral Gables, Florida **August 2021 - May 2025**

Bachelor of Science, **Computer Engineering & Computer Science**, Minors in Communication

GPA: 3.22

Relevant Coursework: Algorithms; Augmented Reality; Cybersecurity; Data Structures; Electronics; Processors: Hardware, Software, and Interfacing; Structured Digital Design; Systems Programming

SKILLS

Languages: C++/C/C#, Assembly, VHDL, Bash, Python, Java, HTML/CSS

Frameworks / Technologies: Apple ARKit & RealityKit, AWS, DE1-SoC Dev Kit, ESRI, Git, Google ARCore, iOS, Jira, Kali Linux, ModelSim, MRTK, PSpice, Quartus Prime, TensorFlow, Unity/MARS, UNIX, Xcode, YOLO

RELEVANT EXPERIENCE

University of Miami, Coral Gables, Florida **April 2022 - Present**

Full-stack Developer, Frost Institute for Data Science and Computing

XR Software Engineer, Information Technology Innovate Team

- Designed, developed, tested, and deployed spatial applications using Magic Leap headsets in an Agile workflow.
- Lead developer and designer of a mobile AR app that uses YOLOv8 computer vision technology to scan food and return its macronutrient data with respect to portion size. Uses a self-trained database of over 120 thousand food images with hundreds of food options that are scannable, accurate, and allows for user input correction.
- Full-stack development, working towards application expansion by learning and using the PEAN stack to allow for multiple user registration, real-time image capturing, and uploading to database via RDBMSs.

Digital Tales, Milan, Lombardy, Italy (Remote)

July 2023 – August 2023

Incoming Software Engineer Intern (Part-time)

- Taking a role as a developer for an undisclosed augmented reality application using Unity as an engine.

PROJECTS

[Calorie Checker AR](#)

June 2022 - Present

- An innovative image-analysis application that gives users the macronutrient and caloric information of food by scanning them with their phone camera in real time.

LICENSES AND CERTIFICATIONS

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| • <u>Generative AI learning path</u> | <i>Google Cloud Skills Boost</i> | June 2023 |
| • <u>Explore a Career in MLE learning path</u> | <i>LinkedIn</i> | June 2022 |
| • <u>Unity Junior Programmer/Essentials</u> | <i>Unity</i> | May 2022 |

EXTRACURRICULAR ACTIVITY

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|---|---|
| • University of Miami XR Garage | • Caribbean Students Association |
| • National Society of Black Engineers, Senator | • Boxing Club |
| • Google Developer Students Club | • Pi Kappa Phi Fraternity |

ADDITIONAL INFORMATION

Professional Affiliations: ColorStack (Member), SEO Career (Edge Participant), eMerge Americas (2022 & 2023 Attendee), Live! 360 Orlando (2022 Attendee, AI Track)

Languages: English (native), Haitian Creole (fluent), Spanish (fluent), American Sign Language (proficient)

Personal Interests: DJing, Manga, Social activities, Sports (basketball, chess, esports, football, MMA), Vinyl collecting