

Miguel Angel Garcia

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I hope you're having a great day!

My name is Miguel Garcia, a Computer Engineering student with a background in hardware engineering and a newly found passion for software, AI, and creative problem-solving.

What started as an academic journey in computer engineering and programming quickly grew into real-world exploration. My dive into software began with a project using Nvidia's Jetson Nano to simulate an autonomous vehicle dodging obstacles. I connected real-time image classification with a custom Pygame script through web-socket communication, creating a system that visually responded to live predictions. That project didn't just challenge my engineering skills, it showed me how fun it can be to turn abstract ideas into something tangible, interactive, and constantly evolving.

That's when it clicked. I decided to pivot into software and was fortunate enough to land a Full Stack Software Development Co-op at Verizon earlier this year. There, I built a multi-level conversational agent system using tools like React, JavaScript, Node.js, MongoDB, and Gemini to create user interactions that felt more intimate and natural. Working in this fast-paced environment taught me how to align technical solutions with evolving business goals and to think strategically while building creatively, because if you're not up to date, you're already behind.

More importantly, it pushed me to explore, 'what are people and companies building? What's the latest technology out there?' This curiosity led me to my current passion for graphics, GPUs, engines, tools, UI, and everything this space has to offer. What started as front-end research in Three.js and 3D animations on a webpage opened the door to the world of graphics programming and pixel manipulation. It's been exciting to dive into, and I've since begun building my own projects to simulate pixel behavior, through ray tracing and simulations. I love being able to control what's rendered and bring life to each frame.

Outside of coding, I've taken initiative to lead and collaborate. Through SHPE and HISPA, I've worked to empower underrepresented communities in tech through leadership and outreach. I've also pursued industry exposure through externships with Epic Games and EA, along with hands-on experience in QA game testing, cause I LOVE GAMES, and it's never fun to stop being who you are in this space.

I believe I have a love for rapid learning, innovation, and a deep appreciation for empowering the world. Thank you for your time and consideration.

Sincerely,



Miguel Garcia