

# MARC VICTOR L. VELASQUEZ

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## DESCRIPTION

I am a 4th year Computer Science student at Angeles University Foundation, specializing in Data Science. Experienced with AI model development, cloud computing, and data analysis as well as proficient in C++, C#/.NET, Python, Java, and Rust. I hold certifications in Microsoft Azure and Oracle Cloud Infrastructure, focusing on impactful solutions for real-world issues.

## EXPERIENCE

- Application Developer (Freelance)** Jan 2023 - Present
- Developed and deployed web applications to enhance clients' workflows, leading to increased efficiency.
  - Successfully launched clients' applications on Amazon Web Services or Microsoft Azure, depending on their preference, ensuring robust performance and scalability.

## PROJECTS

- Text-to-Logic Model Transformer for Generating Actor Behaviors in Unreal Engine Simulations** Jan 2025 - Present
- Developing an AI Director system in Unreal Engine 5 that enables dynamic, physics-driven actor behaviors based on text prompts, utilizing a diffusion and large language model pipeline.
- Knee Tear Detection of the Anterior Cruciate Ligament and Meniscus from MRI Data using Stacking Ensemble Learning** Apr 2025 - Oct 2025
- Developed a YOLOv11 ensemble pipeline to detect ACL and meniscus tears with fastMRI data.
  - Model pipeline shows an 88% in FROC and 73.5 in F1-Score for bounding box predictions.
  - Created a web app for patient records to show model results to healthcare professionals.
- Water Management and Processing Web Application** Jan 2024 - May 2024
- A web application was created using Next.js for client and server operations and Express.js to connect with a PostgreSQL database for managing water refilling business records.

## EDUCATION

- Bachelor of Science in Computer Science** 2022 - 2026
- Angeles University Foundation
- Relevant coursework in machine learning, deep learning, advanced statistics, data structures and algorithms, generative AI, software development and engineering, and data analysis

## SKILLS

- Languages:** C++, Python, C#, Java, Rust, HTML, CSS, JavaScript, Dart, and Go
- Frameworks:** PyTorch, Tensorflow, Next.js, React Native, and Flutter
- Tools:** Git, Visual Studio, Visual Studio Code, GitHub Desktop, HuggingFace, Power BI, Microsoft Fabric, Amazon Web Services, Microsoft Azure, and AppWrite

## ADDITIONAL INFORMATION

- Certifications:** Microsoft Certified: Azure Fundamentals; Microsoft Certified: Azure AI Fundamentals; Microsoft Certified: Azure Data Fundamentals; Oracle Cloud Infrastructure 2025 AI Foundations Associate; and Oracle Cloud Infrastructure 2025 Certified Generative AI Professional.
- Awards/Activities:** College Scholar (2023 - 2024); AUF JPCS Digital Solution Hackathon 2025 (3<sup>rd</sup> Place); 2nd Runner Up, Best Technical Execution, and People's Choice Award at GDG-HAU's The AI Hack