Marcus Blea

Austin, TX | **512.571.4386** | bleama02@gmail.com   **My Portfolio:**

EDUCATION

Loyola University New Orleans   **New Orleans, LA**
Bachelor of Science *Computer Science*   GPA: 3.62/4.0 May 2025
Honors/Awards: Dean's List | Graduated Cum Laude

ACADEMIC PROJECTS

Local Resources Finder Project   **2025**
- Collaborated on a large-scale web development project to build a web server that helps users locate local resources near campus.
- Successfully executed key roles throughout the project, including:
    - **Backend Developer:** Implemented server-side logic and data handling.
    - **Frontend/UI Developer:** Designed and developed user-facing features
    - **Quality Assurance:** Conducted testing and debugging to ensure reliability and usability.
    - **Product Manager**: Helped define project scope and workflow prioritization.
    - **DevOps Team Lead:** Oversaw version control, deployment pipelines, and team collaboration tools.

AI Autoencoder Project   **2025**
- Developed an image autoencoder using **PyTorch** to compress (encode) and reconstruct (decode) image data.
- Implemented neural network architecture to convert images into a lower-dimensional representation and accurately re-generate the original image from encoded data.
- Demonstrated practical understanding of deep learning concepts, computer vision, and model optimization.

Horror Video Game Project   **2024**
- Designed and developed a 3D survival game from scratch using **C#**, featuring a player tasked with collecting hidden notes on a dark map while evading a pursuing creature.
- Implemented multiple difficulty levels with dynamic gameplay adjustments to enhance user experience and replay-ability.
- Built core gameplay mechanics including pathfinding, player input handling, and game state management.

EXPERIENCE

Tyler Technologies – *Technical Services Intern*   *Austin, TX | 2024*
- Supported over 500 clients across the U.S. in implementing necessary firewall configurations for secure database transitions.
- Conducted connection tests to ensure stable and secure communication between client firewalls and company databases.
- Consistently achieved and exceeded weekly client transition benchmarks.

Ceramic Lodge – *Studio Assistant*   *Austin, TX | Summers 2021–2023*
- Delivered clear, hands-on guidance to patrons on ceramic painting techniques and material selection.
- Managed glazing and kiln firing processes to ensure high-quality finished products.
- Handled inventory management, restocking, and point-of-sale transactions efficiently.

Canizaro Center for Catholic Studies *Twomey Leader*   *New Orleans, LA | 2023   2025*
- Coordinated key liturgical elements and logistics for Catholic Mass, ensuring smooth execution of services.
- Delegated roles and responsibilities for Mass participants and developed structured schedules for ongoing involvement.
- Led recruitment initiatives to grow membership and strengthen community engagement.
- Promoted and organized large-scale campus events to increase visibility and participation in faith-based activities.

SKILLS

- **Programming:** Proficient in C++; familiar with Python, Java, C#, HTML, and CSS
- **Tools & Frameworks:** PyTorch, Git, Visual Studio Code, Unity,
- **Development:** Clean, well-structured coding practices; experience in full-stack project roles
- **Leadership & Teamwork:** Effective leader with experience in collaborative, role-rotating environments
- **Communication:** Strong written and verbal communication skills
- **Problem-Solving:** Skilled in analyzing and resolving complex technical issues
- **Adaptability:** Quick to learn and apply new technologies