Arthur Ngendananimana

Erie, PA | 814-218-8547 | aliarthur35@gmail.com | linkedin.com/in/arthur-ngendanan

EDUCATION

Gannon University	Expected Graduation: May 2025
Bachelor of Science, Computer Science	Current GPA: 3.66

WORK EXPERIENCE

Gannon university   **January 2023-current**

Peer Mentor/tutor

- Provide one-on-one tutoring in programming languages including Java, Python, HTML/CSS, C, and C++.
- collaborated with program director to improve the design and development of the Gannon University SSS TRIO homepage using HTML/CSS and JavaScript.
- Assisted students in debugging and troubleshooting coding errors to enhance their problem-solving skills.
- Provided guidance on effective study strategies and time management techniques to help students optimize their learning outcomes.

McNair Scholars   **August 2023 – current**

Research Scholar/intern.

- Spearheaded the design and development of a C# web application fallowing clean architecture design, leveraging the .NET Framework.
- Designed and implemented algorithms for data processing and analysis, optimizing performance and accuracy.
- Conducted comprehensive research on the ethical and societal implications of AI achieving human-like capabilities.
- Explored the feasibility of replicating human emotion and understanding within AI systems.

COURSEWORK EXPERIENCE

Software Engineering   **August 2022 – December 2022**

- Designed and developed a Python application utilizing QT and the TMDb API to provide comprehensive movie information and trailers.
- Implemented Git for version control and Jira for task management, ensuring effective group communication, collaboration, and project coordination.

Algorithms and Data Structures   **January 2023 – May 2023**

- Implemented classic data structures such as linked lists, trees, and hash tables to organize and sort geographical data and display that information.
- Integrated pathfinding algorithms like Dijkstra's Algorithm to find the shortest route between locations on a map.

Skills

- Programming Languages: Java, Python, C++, C#, HTML/CSS
- Tools: Git, Jira, .NET Framework
- Languages: Kirundi, English