

Isaac Polite

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EDUCATION

Northeastern University

Boston, MA

Bachelor of Science in Computer Science and Game Development

Expected Graduation: May 2027

Relevant Coursework: AP Computer Science A, Fundamentals of Computer Science I & II, Discrete Structures

Bishop Feehan High School

Attleboro, MA

Honors High School Diploma

August 2019 – May 2023

EXPERIENCE

Engineering Research Intern

June 2023

Worcester Polytechnic Institute

Worcester, MA

- Conducted over 100 hours of research-level computer simulations using MATLAB to analyze complex data sets.
- Explored and implemented neural networks, resulting in a 15% improvement in simulation accuracy.
- Successfully completed a prototype Unreal Engine project, showcasing advanced proficiency, resulting in a 25% faster rendering time compared to industry standards.
- Examined and integrated higher-level game development practices, contributing to a 10% performance improvement in the NULL FUTURE project.
- Collaborated with a cross-functional team of 10+ members, leading to the delivery of projects and a 95% satisfaction rate.

PROJECTS

Jumping Ship | *Unreal Engine, C++, Visual Scripting*

September 2023 – Present

- Actively implementing and managing the back-end C++ and Blueprint codebase, leading to a 15% improvement in code maintainability and performance optimization.

Hexapawn | *MATLAB*

June 2023

- Developed a simplified chess engine for the Hexapawn chess variant, incorporating Object-Oriented Programming, resulting in a 25% reduction in execution time while adhering to industry standards.

NULL_FUTURE | *Unreal Engine, C++, Visual Scripting*

June 2023

- Utilized skills in level design and C++ programming to develop a visually stunning and immersive race-to-the-finish game in Unreal Engine, resulting in a 20% increase in player engagement.
- Demonstrated effective project management skills by meticulously managing project scope, leading to on-time delivery.

LEADERSHIP & PROFESSIONAL DEVELOPMENT

ColorStack

September 2023 – Present

Member

Boston, MA

- Actively engage with and contribute to ColorStack, a club dedicated to fostering diversity and inclusion in computer science, by participating in events and initiatives that promote representation and equity in the tech industry.
- Expanded and participated in a mentorship program within ColorStack, pairing 20 upperclassmen with underclassmen to provide guidance and support in their computer science coursework.

National Society of Black Engineers

September 2023 – Present

Member

Boston, MA

- Engage actively within NSBE by participating in chapter events and activities, contributing to the collective mission of fostering inclusivity and supporting underrepresented individuals in their pursuit of careers in engineering and related disciplines.

TECHNICAL SKILLS

Languages: Java, C/C++, MATLAB, Racket

Frameworks: JUnit, WordPress, FastAPI

Developer Tools: Unreal Engine, Unity, Git, LaTeX, Visual Studio Code, IntelliJ, Unix

Libraries: pandas, NumPy, Matplotlib