

NATASHA M DAAS

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Northeastern University, GPA: 3.80

B.S in Computer Science and Media Arts || Animation Concentration

Boston, MA, Sept 2021 - Present

Expected December 2025

Relevant Coursework:

Computer Science Programming in C++, Computer Graphics, Linear Algebra, Object-Oriented Design, Algorithms and Data Structures, Database Design, Human Computer Interaction, Discrete Structures

3D Animation Animation Basics, Animation 1

SKILLS

Programming C++, Python, Qt, OpenGL, Java, Javascript, Typescript, React, SQL, MongoDB, CSS

Art/Animation Maya, Blender, Adobe Substance Painter, Adobe Illustrator, Adobe Photoshop, Adobe After Effects

PROJECTS

[Maya Plugin for Plant Creation](#) *Stylized Plant Generation Tool* Dec 2024 - Present

- Used Python and MEL scripting to quickly generate variations of a leaf using distortion, tilting and scaling
- Allows swift distribution of leaves around a stem or in a concentrated location
- Designed a GUI for the tool using PyQt

[Raytracer](#) *Advanced Lighting, Shadows and Custom Scene Creation* July - Dec 2023

- Developed a C++ application integrating ray-object intersection calculations for boxes, spheres, cylinders, and cones, utilizing vector calculations for accuracy.
- Implemented an Object Oriented Model-View-Controller framework to construct hierarchical node systems, enabling creation of custom scenes with reflection, refraction, and refractive index properties.
- Enhanced the application with advanced lighting features including spotlights, point lights, and area lights, enabling the creation of hard and soft shadows by adjusting light sample counts.

[OpenGL Projects](#) *Trackball, Lighting, Texturing and Animation in OpenGL* Feb - April 2023

- Implemented trackball effect and programmed movements of a helicopter camera and first person camera
- Applied the visitor pattern in C++ to implement hierarchical rendering of nodes in scene
- Allows specification of spotlights, object textures and ambient, diffuse and specular properties for lights and materials

EXPERIENCE

Nickelodeon June 2024 - Present
Data Strategy Intern Burbank, CA

- Utilized Python and Pandas for advanced analytics, providing valuable business insights and enhancing decision-making capabilities for the company
- Attended weekly meetings to understand technical production challenges and Shotgrid challenges

Northeastern University July 2023 - December 2023
System Support Associate Boston, MA

- Utilized HTML, CSS and Javascript to move Northeastern web content to the Slate platform, maintaining and enhancing user experience of the university's websites.
- Used Microsoft Power Apps and Microsoft Power Automate to make daily business processes more efficient for college counselors.

Khoury College of Computer Science Jan 2023 - May 2023
Teaching Assistant Boston, MA

- Supported students in office hours by developing their understanding of programming concepts
- Graded coursework and provided feedback on topics related to object-oriented programming, complex data structures and other concepts using Java programming.

LEADERSHIP

NUAnimation Club *Treasurer, Vice President* Sep 2021 - Present

- Advised on and managed financial transactions with sponsors and the university to ensure efficient budget allocation and financial sustainability
- Organized events like animation jams, workshops and speaker events and panels with industry leaders