Daniel Chin

617-877-5486 | djchin2004@gmail.com | [LinkedIn](#) | [Github](#)

EDUCATION

University of Massachusetts Amherst — Amherst, MA
Bachelor of Science, Computer Science and Computational Mathematics — *Sep. 2022 - May 2026*
Relevant Coursework: Programming with Data Structures, Intro to Algorithms, Web Programming, Intro to Computer Graphics

TECHNICAL SKILLS

Languages: Java, C, C++, Javascript, Typescript, HTML, CSS
Frameworks: React, NodeJS, JUnit, Jest
Developer Tools: Git, Visual Studio Code, Unreal Engine 5, Blender, Niagara VFX, Eclipse
Libraries: Three.js, JSoup, WebGL
Other Tools: Word, Excel, PowerPoint, QuickBooks

PROJECTS

Interactive 3D Ray Tracing and Rendering System — WebGL, Three.js
JavaScript, HTMl
- Developed a comprehensive 3D ray tracing and rendering system using JavaScript and WebGL.
- Created various components essential for realistic rendering, including materials, shapes, lights, and cameras.
- Implemented advanced techniques for simulating light interactions with objects, such as reflections, refractions, and shadows.

Weather and University Data Fetcher
Typescript
- Developed JavaScript-based application to fetch real-time weather data and display it alongside university information.
- Implemented unit tests using modern testing frameworks to ensure the accuracy of API calls and data processing logic.
- Collaborated in a team using Git for version control, managing feature branches, handling merge conflicts, and conducting code reviews.

Web-Based 3D Object Renderer with Hierarchical Control — WebGL, Three.js
Javascript, HTML
- Created a JavaScript-based 3D rendering application using Three.js for real-time object visualization and scene manipulation.
- Designed a hierarchical object management system to handle complex parent-child relationships between objects, allowing for easy manipulation and rendering.
- Conducted performance optimization for smooth rendering of 3D models, ensuring efficient memory and resource management in the browser environment.

EXPERIENCE

Lowe's Sales Associate — June 2024 – September 2024
Framingham, MA
- Assisted customers in locating and selecting products, offering product knowledge and guidance to ensure an exceptional shopping experience.
- Provided support for inventory management, including receiving shipments, conducting inventory counts, and restocking items as needed.
- Ensured all products were correctly priced and labeled according to company guidelines.

Production Stagehand — March 2024 – May 2024
UMass Fine Arts Center
- Assisted in the setup and breakdown of stage equipment for various events, including concerts and theater productions.
- Operated stage machinery and lighting equipment during performances to ensure smooth execution of events.
- Ensured all stage equipment was maintained, stored, and organized according to safety protocols and venue guidelines.
- Collaborated with technical directors, sound engineers, and other stagehands to coordinate seamless event production.