



MSCS 630L 711 Security Algorithms & Protocols

Professor Kippins

Assignment: Project Proposal

Due: March 21, 2022

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This project will combine the AES encryption process with animation in the Babylon.js web rendering engine. Tentatively titled “BabylonAES”, the goal is to provide a real time 3D visualization of how encryption works from plaintext to ciphertext. The idea is to have cubes, grids, and planes moving around the screen and changing their letters and numbers depending on which stage they are at in the process. The end user will be able to rotate the camera, zoom, and pan to view the display from any angle.

The first step will be to convert lab 5 to JavaScript. Animation development will start from there in iterative steps. If time allows, stretch goals include: the ability to enter plaintext via a gui input and creating a desktop app using Electron.