

# Nathan Patzer

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## WORK EXPERIENCE

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### **CBRE Jan. 2022 – Present** *Financial Systems Specialist Bloomington, MN*

- Maintained and managed multiple databases using SQL, optimizing performance and ensuring data integrity
- Wrote and executed complex SQL queries to extract and analyze data as well as implementing and enforcing security measures to protect sensitive data
- Responded to customer support tickets, resolving technical issues and addressing customer concerns in a timely and professional manner
- Utilized agile methodologies and participated in daily standups to ensure effective collaboration among team members
- Monitored and maintained automation scripts, troubleshooting and resolving issues as needed

### **CBRE Jun. 2021 – Aug. 2021** *Financial Systems Intern Bloomington, MN*

- Responded to customer support tickets, resolving technical issues and addressing customer concerns in a timely and professional manner
- Developed and maintained VBA scripts to automate data processing and analysis in Excel
- Worked with senior members on upgrading software
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## PROJECTS

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### **Raytracer (C++)**

2022

<https://github.com/NathanPatzer/CPPRaytracer>

- Raytracer implemented in C++
- Uses shaders, lights, and BVH to raytrace a realistic looking 3D scene

### **Pitch Detector (C++)**

2022

<https://github.com/NathanPatzer/PitchDetector>

- Detects note of sound being played and displays onto the screen
- Can be used in music software as a VST to detect what note a sample is playing if not provided
- Developed as a personal project while working on my musical hobby

## EDUCATION

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### **University of Minnesota Duluth**

May, 2022

*Bachelor in Computer Science*

*Duluth, MN*

- Relevant coursework: Machine Learning, Software Engineering and Design, Cyber Security, and Computer Networks
- Alumni of the Upsilon Gamma chapter of Tau Kappa Epsilon at UMD; a fraternity focused fundraising for the St. Jude Children's Research Hospital

## SKILLS

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- Proficient in C++, Python, Java, and SQL Programming languages.
- Experience with GIT, Linux, and Visual Studio.
- Agile development methodologies
- Familiar with cloud computing services such as AWS and Azure