Bayla Patin

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EDUCATION

Louisiana State University (LSU), Baton Rouge, LA   **May 2026**
Bachelor of Science in Computer Engineering/Bachelor of Science in Computer Science   *GPA: 3.22*
Minor: Math
Related Coursework: Electronics, Circuits, Microprocessors (ARM), Computer Architecture (MIPS), Advanced Data Structures and Algorithms, Operating Systems, Database Management, Deep Learning (Current)

EXPERIENCE

Peer Mentor   **Jan. 2022 – Dec. 2022**
Peer Mentoring at ULL, Lafayette, LA
- Assisted students in understanding concepts they were unsure of by figuring out the problem and finding an easy way for them to bridge the gaps in their knowledge.
- Helped me become more fluent in the concepts I was assisting with.

Researcher   **Jan. 2025 – May. 2025**
LSU Math Department, Baton Rouge, LA
- Applied statistical analysis and machine learning techniques to evaluate student performance in Math 1020/1021.
- Analyzed large university datasets to identify performance trends and patterns.
- Built and tested classification and regression models to predict student grades using only quantitative data.

Researcher   **Aug. 2025 – Current. 2025**
LSU/Ochsner Health, Baton Rouge, LA
- Benchmarking 3D SLAM techniques for endoscopic surgery using real surgical video and electromagnetic tracking data.
- Will assist in developing the ground-truth dataset, synchronizing nasal endoscope footage with Medtronic Stealth Station tracking.
- Collaborating with a multidisciplinary team to bridge AI, computer vision, and healthcare applications to expand access to ENT-level care.

Individual Project
- I designed and implemented a portable MP3 player using Arduino. Utilizing Arduino's programming capabilities, I programmed the MP3 player to read and play audio files from an SD card. I incorporated essential electrical components, including push buttons for user control, a potentiometer for volume adjustment, and 8-ohm speakers for sound output.

SKILLS

Detail-oriented, effective communication skills, problem-solving oriented, team collaborator
Proficient: Java, MATLAB, Microsoft Office, Arduino, Unix
Previous Experience: JavaScript, Python, C/C++, SQL