

# Alexander Hollier

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## EDUCATION

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**Louisiana State University (LSU), Baton Rouge, LA**

*Computer Science with Software Engineering Concentration*

**May 2027**

*GPA: 3.93*

**Related Coursework:** AI and LLM Development, Software System Development, Object Oriented Programming

## EXPERIENCE

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**Robotics Research Assistant**

**August 2025 – Present**

*College of Engineering, Louisiana State University, Baton Rouge, LA*

- Develop a RobotStudio add-in under PhD mentorship integrating large language models.
- Streamline the robot programming workflow by reducing the time needed to learn and write RAPID code, improving both usability and efficiency.
- Extract and organize technical data from multiple repositories to provide structured context for LLMs.
- Apply software engineering practices including version control, modular C# development, and collaborative code reviews in academic environment.

**Radio DJ & Operator**

**June 2025 – Present**

*KLSU Radio Station, Louisiana State University, Baton Rouge, LA*

- Host a weekly live radio show, delivering engaging content and maintaining consistent show structure.
- Monitor station broadcast signal to ensure compliance with FCC regulations.
- Perform routine checks to ensure smooth station operation and timely transitions between programming.
- Answer live listener calls and respond in a professional, friendly manner to foster listener engagement and community interaction.

**Reading Tutor**

**September 2023 – December 2023**

*Highland Elementary School, Baton Rouge, LA*

- Provided one-on-one instruction to elementary students in phonetics, fluency, and overall reading comprehension.
- Tracked student progress and gave regular feedback to teachers.
- Assisted ESL students in learning spoken and written English.
- Offered insightful feedback and motivation to inspire students to work towards reading goals.

## SKILLS

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Java, C, Python, React Native, AWS, Typescript, JavaScript, HTML, CSS, C++, Git, Web Design, App Design.

## ACTIVITIES

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1<sup>st</sup> Place Hackathon Winner, Executive Support Chair of Engineering Diversity Ambassador, Google Developer Student, Society for Hispanic Professional Engineers member, American Institute of Aeronautics and Astronautics Member, President's List Honor Recipient.

## PROJECTS

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Use React, Python, and AWS to build a web app for Entergy that applies AI and graph algorithms to map and visualize optimal career progression routes.

Using React Native and Firebase, designed and built an IOS and Android application to help students learn music theory with engaging challenges and lessons as well as a built-in track creator.

Built an interactive geography website with HTML, CSS, and JavaScript resulting in first place Hackathon win.