

Samuel Jones

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EDUCATION

Louisiana State University (LSU), Baton Rouge, LA

May 2023

Roger Hadfield Ogden Honors College

Bachelor of Science, Computer Science

GPA: 3.84

Minor: Mathematics, Robotics

Related Coursework: Systems Programming, Database Management Systems, Data Structures & Algorithms, Artificial Intelligence

EXPERIENCE

NASA SSC Technology Transfer Software Engineering Intern

June 2021 – August 2021

Remote, John C. Stennis Space Center, MS

- Created two analytics dashboards for process improvement metrics and budget forecasting to allow for more efficient operations and decision making of SSC T2 executives.
- Developed using primarily Anaconda, Jupyter Notebook, and Python, utilizing libraries & technologies such as Pandas, SQLite, and Plotly.
- Implemented custom dynamic vector graphics and UI modifications using Javascript, HTML, and CSS

Robotics Team Mentor

September 2019 – Present

FIRST Robotics Competition Team 8044, Denham Springs, LA

- Mentoring a high school robotics team to be competitive and promote STEM in their community. Mentorship includes teaching and demonstrating technical, organizational and leadership skills to the students.
- Teaching skills including Java, object-oriented practices, problem-solving, and researching to the students on the programming sub-team.
- Helping the students to implement their own feedback control loops, motion profiling, and vision processing to allow for autonomous performance of the robot and enhancement of the robot during human control periods.

PROJECTS

DrugHub

- Developed Android application for storing information about current medications and when to take them, as well as providing reminders of dosage and timing of medications and the ability to track medications already taken.
- Working in a collaborative, 6-person team using a Kanban Agile Development process.
- Implemented using Android Studio, Java, and XML

Algorithm Visualizer

- Static web application for visualizing a variety of sorting and pathfinding algorithms.
- Created using HTML, CSS, Javascript, and Bootstrap.

Room Organizer

- Single-page web application for visualizing room layouts.
- Created using HTML, CSS, Javascript, React.js, and Bootstrap.

SKILLS

- Languages/Formats: Javascript, Python, Java, C, C++, SQL, HTML, CSS, JSON, XML, XHTML, MATLAB
- Libraries/Frameworks: Jupyter, React, Node.js, Express.js, Pandas, Plotly, Numpy
- Tools: Git, GitHub, VSCode, Linux, Makefile, Agile Methodologies, Agile Kanban

HONORS

Sophomore Honors Distinction (Fall 2021), President's Honor Roll (Fall 2019 – Spring 2020), Dean's List (Fall 2020 – Spring 2021)