JUSTIN LAU

justinlau@gatech.edu • 410-818-8113 • U.S. Citizen
linkedin.com/in/jlauuu • www.jlau.digital

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, College of Engineering   **Atlanta, Georgia**
Bachelor of Science in Computer Engineering   August 2018 – May 2022
- GPA: 3.94/4.00

EXPERIENCE

Lockheed Martin   **Middleriver, MD**
Software Engineering Intern   June 2020 - August 2020
- Developed the frontend of OpenNMS platform to satisfy ship service requirements using HTML, CSS, and JavaScript in JSP format.
- Created an LHA ship mapping with Leaflet, objects chart page that displays nodes/node information in ship view, and a maintenance page that takes node data from PostgreSQL database.
- Built a multifunctional graphical interface tool for Composer that optimally inputs up to 20 signal data at a 200 ms rate using C# in Visual Studio.
- Carried a virtual DRL drone design through the engineering life cycle for a drone racing simulation with intern team.

National Aeronautics Space Association (NASA)   **Greenbelt, MD**
Research Intern   June 2019 - August 2019
- Carried out a statistical study of multiple nose ion events correlation with IMF Bz component.
- Sorted satellite data and outputted critical information/plots by using Python scripts incorporating NumPy, k-means algorithm, and matplotlib.
- Modeled particle drift sequences by running Comprehensive Inner-Magnetosphere Ionosphere scripts in a Linux environment and produced IDL simulations.

Georgia Tech (CRC)   **Atlanta, GA**
Intramural Sports Referee   August 2018 - *Present*
- Refereeing all intramural sports games by season.
- Maintaining knowledge of game specifications to most effectively serve player needs.

Kumon Math and Reading Center, Dorsey Hall   **Columbia, MD**
Math and Reading Tutor   May 2016 - February 2018
- Tutored kids from ages 6-14 in various concepts in correspondence with Kumon level program.
- Graded work booklets, organized inventory, and provided good customer service to parents.

ACTIVITES/LEADERSHIP

Vertically Integrated Projects   **Atlanta, GA**
Project Member   August 2019 – December 2019
- Designed an interactive crowd-sourcing application for the Georgia Tech Strategic Office to utilize for future institute planning involving Intelligent Platform Crowdsourcing with project team.
- Incorporated k-means clustering, data extraction from google firebase, and SK learner in the data analysis portion.
- Developed the front-end of the web application for user inputs and data collection with the software group.

Data Science @ GT   **Atlanta, GA**
Executive Analytics Team   September 2019 – *Present*

Sigma Phi Epsilon Georgia Alpha Chapter   **Atlanta, GA**
Social Committee, Member   August 2019 - *Present*

National Honor Society & Mu Alpha Theta (Math NHS)   **Marriottsville, MD**
Executive Officer, Member   September 2016 - May 2018
- Oversaw all participation in Marriotts Ridge High School NHS chapter, assisted in leading general meetings.
- Tracked member hours, planned community service events for students, attended executive meetings.

SKILLS

Software: Java, Python, C, C++, C#, HTML, CSS, JavaScript, JSP, SQL, MIPS Assembly, Git, MATLAB, IDL, Arduino
Relevant Courses: Object-Oriented Programming, Engr. Software Design, Programming HW/SW, Intro to Database Systems, Info. Security, User Interface Design, Digital System Design, Digital Design Lab, Intro to Signal Processing, Circuit Analysis