

JUSTIN LAU

justinlau@gatech.edu • 410-818-8813 • U.S. Citizen
linkedin.com/in/jlauuu • www.jlau.digital



EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, College of Engineering
Bachelor of Science in Computer Engineering

- GPA: 3.94/4.00

Atlanta, Georgia
August 2018 – May 2022

EXPERIENCE

Lockheed Martin

Middle River, 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 in node data from PostgreSQL database.
- Built a multifunctional graphical interface tool for Composer IDE that optimally handles up to 20 signal data at a 200 ms rate using C# in Visual Studio.

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.
- Created Python scripts to sort Van Allen satellite data and output critical information/plots using 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 and maintaining knowledge of all intramural sports by season.

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.

PROJECTS

jlau.digital

Summer 2020

- A personal portfolio website built from the ground up exhibiting proficiency with HTML/CSS/JS and design sensibilities.
- Hosted on NameCheap servers with a custom URL domain and utilized Bootstrap for responsive elements.

NBA Culture App

Summer 2020

- Built a personal ReactJS application that scrapes web API data and allows users to search for advanced statistics of both current and historical NBA players.
- Created a feature that displays both tabular and graphical data on the shift of playstyle culture based on shot attempt distributions over the years.

ACTIVITIES

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 alongside project team.
- Developed front-end of app and incorporated k-means clustering, data extraction from Google firebase, and SK learner in data analysis scripts.

Sigma Phi Epsilon Georgia Alpha Chapter

Atlanta, GA

Social Committee, Member

August 2019 – Present

SKILLS

Software: Java, Python, C, C++, C#, HTML, CSS, JavaScript, ReactJS, JSP, SQL, MIPS Assembly, MATLAB, Arduino

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