

JUSTIN EFFENDI

U.S. CITIZEN

678-492-9283 | justin.effendi@gmail.com | [linkedin.com/in/j-fendi](https://www.linkedin.com/in/j-fendi) | github.com/j-fen-di

SUMMARY

A driven engineer and computer scientist eager to employ creative solutions for the aerospace industry.

EDUCATION

Georgia Institute of Technology

Atlanta, GA

M.S. Aerospace Engineering

Jan 2024 – May 2025

Georgia Institute of Technology

Atlanta, GA

B.S. Computer Science, Minor in Aerospace Engineering - GPA: 3.31

Aug 2019 – Dec 2023

- Awards: 2021 Georgia Engineering Foundation Scholar, Dean's List, Zell Miller Scholarship
- Activities: Yellow Jacket Space Program, Glee Club, VIP Program, Chamber Choir, Chorale, Blueprint Yearbook Club

WORK EXPERIENCE

Development of Rocket Propellant Sloshing Analysis Framework (LGST Lab)

Atlanta, GA

Undergraduate Research Assistant

Aug 2022 – Present

- Leading a quasi-analytical framework sub-team of five people and ensuring sub-team goals are met.
- Modeling sloshing parameters mathematically for differently-shaped tanks in MATLAB based on past literature.
- Developing an open-source propellant sloshing analysis framework attached with a user-friendly GUI in Python.

L3Harris Technologies

Remote

Application Developer Intern

May 2023 – August 2023

- Replicated internal order data with SAP SLT tool and custom rules created in the ABAP language.
- Performed data loads with SAP Data Migration Cockpit to consolidate two divisions to a single SAP instance.
- Built weekly reports to track progress of enterprise-wide Central Finance (CFIN) system upgrades.

The Aerospace Corporation

Huntsville, AL

Software Engineering Intern

May 2022 – Aug 2022

- Implemented a SQLite3 database that improved loading and querying speeds by 55 percent.
- Developed an extension for a model that graphs flight telemetry for multiple trajectories in a HTML file.
- Wrote a technical user guide for a missile booster simulation that saved up to one extra year of work.

Fidelity Investments

Remote

Full Stack Engineering Intern

Jun 2021 – Aug 2021

- Aided a campaign resulting in 2800 new accounts and a 13-fold trade volume increase in one month.
- Added five new elements to the app's front-end UI to improve in-app navigation and accessibility.
- Created over 30 unit tests, automation tests, and end-to-end tests to verify key app functionalities.

OTHER EXPERIENCE

Coursework Projects

- Utilized Numpy techniques and thermodynamic equations to find the optimal operating conditions for a turbojet.
- Implemented a convolutional neural network (CNN) for handwriting OCR that achieved over 90 percent accuracy.
- Created a novel client-server chat application in Python that multiple users can join using a passcode.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, HTML, CSS, PHP, JavaScript, TypeScript, MATLAB, VHDL, ABAP

Frameworks: Angular, Cucumber, Serenity, Cypress, JavaFX, Jest, NgRx, Ionic, Jasmine, Django, UML

Developer Tools: Git, Oracle VM VirtualBox, Jira, Jenkins, SQLite, C Shell, Bash, Plotly, Numpy, InfluxDB, SAP ERP

Concepts: Data Structures, Algorithms, Liquid Propellant Sloshing, Systems Engineering, Orbital Mechanics, Agile Methodology, Liquid Propulsion, Control System Analysis, Numerical Methods, Thermodynamics, Optimization

Processes: PCB Assembly, Socket Programming, Soldering, Link Budget Analysis, Circuit Prototyping