# Simon Sprouse

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**https://github.com/Simon-Sprouse**

**OBJECTIVE**   I'm an aspiring Data Scientist seeking an internship for Summer 2024.

**EDUCATION**   **BS Computer Science *Honors*, (Junior)**          **May 2021 – May 2025 (Expected)**
Texas A&M University, College Station
Major GPA**: 4.0,**   Cumulative GPA: **3.93**

**EXPERIENCE**   **American Airlines - Bag Prediction ML Model**          **Jan 2023 – Apr 2023**
- Objective was to improve on airport and flight scheduling efficiency.
- Performed extensive feature engineering on close to 1,000,000 flight logs.
- Designed a LightGBM Machine Learning Regression Model with **$R^2$ of 89.82%.**

**LEADERSHIP**   **Vice President – Aggie Data Science Club**          **May 2023 – Present**
- Responsibility to run internal affairs and host club events.
- Facilitated the club's growth to now over **700 members.**
- Public outreach to company sponsors, faculty speakers, and project opportunities.

**TEACHING**   **Discrete Math**, Texas A&M University          **May 2023 – Aug 2023**
*Prof. Andres Klappenecker*
- Helped manage a class of ~40 students.
- Responsible for hand grading HW (proofs, theory, algorithms, word problems).

   **Data Structures and Algorithms**, Texas A&M University          **May 2023 – Present**
*Prof. Teresa Leyk*
- Currently help manage multiple Lab sections of ~20 students each.
- Assist students with programming applications (I've debugged 100's of assignments).
- Host Week-In reviews across all sections for **400+ students.**

**PROJECTS**   **OpenCV Filtering Art - https://github.com/Simon-Sprouse/Filter-code**          **May 2023**
- Designed an image filtering algorithm split an image into equal sub-arrays.
- Used OpenCV bit-masking to re-color and layer image maps – very pretty results.

   **SQL Database Design/Backend**          **Aug 2023**
- Worked on a web team to design a message board website hosted on AWS.
- Responsible for integrating the User's landing page along with several update features.

**AWARDS**   **ADSC Spring Hackathon - First Place**          **Apr 2023**
- Designed an ML model to classify customers as either Business/Leisure.
- Finalized/Presented Logistic Regression model with **F-Score 90.67%.**

**RELEVANT**   Data Structures    Discrete Math   Computer Architecture    Statistics I
**COURSEWORK**   Computer Networks       Database Systems      Machine Learning

| **WORK** **EXPERIENCE** | | | |
|---|---|---|---|
| **Private Tutor** | (Math/CS/Science) | **Jan  2017 – Jan  2018** |
| **Waiter** | (Bush's Diner) | **May 2019 – May 2021** |
| **Lifeguard** | (City of Austin) | **May 2022 – Aug 2022** |
| **Undergrad TA** | (Texas A&M University**)** | **May 2023 – Present** |

**TECHNICAL**   **Languages**   **– Python, C++, SQL, R, Jscript, HTML, CSS**
**SKILLS**       **Libraries**   **–** NumPy, Pandas, Sklearn, PyCaret, SciPy, OpenCV, Stats, Flask