Samuel Downs

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Certifications/Awards:

- 2nd place at UGA Hacks 9 (2024)
- Georgia Gwinnett College bachelor's degree in information technology
- 2nd place at the 2023 National USITCC Database Design competition.
- Honorable Mention for the 2023 National USITCC Business Analytics contest.
- Microsoft Technology Associate (MTA) certification

Outside Events:

- 2024 UGA Hacks
- 2023 National USITCC
- 2023 CCSC:SE conference in both student research and programming
- 2023 GGC STaRS event
- 2020 UGA Hacks
- 2020 GSU Gamejam

Technical Skills:

- ECL
- Python
- Java
- mySQL/Oracle
- R
- Gitbash
- HTML/CSS

Completed Projects:

Kids Can't Fly (Feb 2024): This project uses HPCC system's **ECL** language to **query** their population data and NCMEC data to find correlations in the number of missing children per county fip number. This project won 2nd place in UGA Hack's Help Missing Kids challenge. Devpost: https://devpost.com/software/saving-lives-with-ecl

Grizzly Insights (Jan 2023 to Dec 2023): A **Web-based application** that uses **web-scraped** job data to suggest classes to information technology students by linking the required skills for jobs in their concentration to classes that teach those skills all stored in a **JSON** file. GitHub repository: https://github.com/GGC-DSA/itskills Website: https://ggc-dsa.github.io/itskills/

Monster Makey (Sep 2023 - Nov 2023): An outreach project to increase interest and attention to the information technology field; my team designed a workshop where students would play sounds using a Makey-Makey through **Scratch** to ease into sound design using **Audacity**. We did 4 total workshops (three with college freshmen classes and one with a middle school class) and entered in a student research competition (CCSC:SE). GitHub Repository: https://github.com/TechAmbassadors-GGC/MonsterMakey

Music Classification (Sep 2023 - Nov 2022): This **python** project uses **machine learning** to develop an **AI** that can detect the genre of music through a clip of a song in a .wav file. The .wav files used were found on an open-source dataset site (Kaggle). GitHub repository: https://github.com/Samuel-Downs/Music-Classification/tree/main