Tyson Brown

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Education

Georgia Institute of Technology | GPA: 3.34   Dec 2025
Bachelor of Science in Computer Science (Intelligence and Info-Internetworks)   Atlanta, GA
Minor: Middle Eastern and North African Studies
Relevant Coursework: Data Structures and Algorithms, Design and Analysis of Algorithms,
Intro to Database Systems, Computer Graphics, Computer Vision, Intro to Artificial Intelligence

American University in Dubai   Jan 2024 – May 2024
Exchange Student in the Computer Engineering Track   Dubai, UAE
Relevant Coursework: Computer Networks, Statistics

Experience

Georgia Tech Research Institute   Jan 2023 – May 2023
Applied Embedded Systems Intern   Atlanta, GA
- Collaborated with a cross-functional team of engineers and government stakeholders to upgrade signal processing capabilities of a radar system operated by the US Space Force
- Designed and implemented a **Python** application that emulates the functionality of the radar system by exchanging control messages between the Mission Computer Interface and the Radar Controller
- Built a data pipeline that uses **Pandas**, **Avro,** and **JSON** to process site test data from CSV files, serialize control messages into binary records, and communicate the messages via **TCP/IP** sockets
- Enhanced application accuracy and reliability by implementing error handling of invalid input data
- Utilized **Jira**, **Confluence** and **GitLab** to document software design and support future development

Projects

Habit Tracker iOS Application (In Progress)   July 2024 – Present
- Designed an application to track daily habits and health data
- Sketched a full user interface of all app views, focusing on intuitive navigation
- Implemented the first two views using **SwiftUI** and **Swift**

Personal Portfolio Website   May 2024
- Developed a personal portfolio website using **HTML** and **CSS**
- Designed a visually appealing layout to ensure optimal viewing across different devices

Innovation Management Virtually Integrated Project   Aug 2023 – Dec 2023
- Interviewed administrators to discover inefficiencies in managing research awards
- Prototyped an email notification system with **HTML, CSS, and Google Sheets** to alert administrators about the status of their research awards

Leadership

Phi Kappa Theta Fraternity   Nov 2022 – Nov 2023
House Manager   Atlanta, GA
- Calculated rent prices and created a budget for $200,000 in yearly revenue
- Drafted and finalized the lease agreement for tenants and enforced house rules
- Led a team of seven assistants and directed contractors in maintenance projects

Georgia Tech Office of Undergraduate Education   July 2022, July 2024
Teaching Assistant   Atlanta, GA
- Assisted in teaching three sections of GT 1000 and provided guidance on academic success

Skills

Languages: Python, Java, MySQL, C, C++, MATLAB, HTML, CSS, Processing, OpenCV, Avro, JSON, LaTeX
Software: Excel, Confluence, Jira, Git, GitLab, GitHub, Box, Docker
Additional Info: Arabic (beginner reading & writing), Spanish (intermediate reading & writing)