

Tyler Hirn

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OBJECTIVE

Seeking a data science role in a forward-thinking organization where I can leverage my technological expertise and innovative problem-solving skills to drive data-driven decisions and positively impact the company's bottom line.

EDUCATION

Auburn University

Aug. 2018 - May 2023

- Double Major in Software Engineering and Psychology with Magna Cum Laude honors. GPA: 3.77
- Dean's list, graduate-level courses in Machine Learning and Artificial Intelligence.

EXPERIENCE

Founder & Lead Data Scientist

Jun. 2023 - Present

Core Music

- Developed a cutting-edge music recommendation application in just 10 weeks, resulting in 98 code commits with 108,778 lines of code added, targeting both Android and iOS using Flutter.
- Achieved top-tier accuracies of 96.6%, 86.0%, and 84.3% with a multi-class song mood prediction model on a hand-collected dataset of 2,867 data points, leveraging deep NLP and Gradient Boosting techniques.
- Integrated and optimized a unique synergy between personal journaling and music, interfacing with Spotify's API for scalability and preparing the app for large-scale user adoption. <u>Currently awaiting Spotify quota extension for public release.</u>

Data Scientist & Research Coordinator

Jan. 2023 - May 2023

Department of Psychology | Auburn, AL

• Assisted in the collection and preprocessing of data for a study on AI chatbot-driven personality inferences, working with a dataset of **over 1,400** participants and utilizing advanced data analytics tools to ensure accuracy and integrity

Chief Systems Architect

Aug. 2022 - Nov. 2023

ABEX Cube-Sat Mission | Auburn, AL

• Engineered a sophisticated real-time **satellite infrastructure** to capture elusive gamma radiation signals from space, harnessing avant-garde technologies like Docker, C++, and F/F' while maintaining a **100% uptime** and **error free** system, meeting both my personal standards and required satellite grade requirements.

Full-Stack Engineer

Jan. 2020 – Aug. 2022

CWS | Auburn, AL

- Conceptualized, designed, and brought to life an array of high-impact data driven applications across diverse technology stacks, combining front end features of .Net framework with backend databases on SQL, all in an Agile setting.
- Architected a state-of-the-art student elections logistics dashboard within a Web MVC framework, receiving a personal
 commendation from Governor Ivey of Alabama, showcasing real-time election analytics and insights for an extensive body
 of over 35,000 student voters.
- Revolutionized Auburn facility staff operations by devising a bespoke web application, seamlessly managing football ticket transactions exceeding a staggering **\$100,000** every season, optimizing efficiency and user experience.

Elected Director of Housing Operations

Delta Chi at Auburn University

As director of housing operations, I reduced chore assignment time for over 50 members weekly from 1 hour to 5 minutes by creating a weekly chore schedule generator. Created a household chore bounty system that increased participation from 64% to 92%. Additionally reduced overall household supply costs by 20% by negotiating bulk recurring orders.

Eagle Scout

Founder

Mar. 2014 – Apr. 2018

Boy Scouts of America

Tech Kid Air & Tech Kid

May 2011 – Aug. 2019

- Contracted and produced real estate video showcases, many of which were showcased on Legacy New Homes website and were successful in marketing and selling homes and combined commissioned \$2546.00.
- Founded the company at 12 years old, consultant for tech setups as well as concierge service contracting \$618.12.

SKILLS