

RISHAB RAMALINGAM

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EDUCATION

University of Utah, College of Engineering
Honors Bachelor of Science in Computer Science

Salt Lake City, Utah
Aug 2023 - May 2027

EXPERIENCE

University of Utah - Housing and Residential Education
Developer and Housing Ambassador

Salt Lake City, Utah
July 2024 | Present

- Spearheaded the development of an **automated email response system** that leverages data from the official HRE website, drastically reducing repetitive inquiries and expediting response times.
- Utilized **Python** scripting and **web scraping** techniques to streamline FAQ handling, ensuring consistent, accurate, and prompt email communication for thousands of incoming requests.
- Served as a Housing Ambassador and spokesperson, responding to complex student and parent concerns via email and in-person consultations, fostering a welcoming and supportive campus community.

Compost Utah
Cofounder and Developer

Midvale, Utah
Jun 2022 | Aug 2023

- Founded a premier 501(c)(3) Non-Profit in the Wasatch Front that promotes composting and secured corporate funding from Dominion Energy to expand community outreach.
- Developed and launched a dynamic website using **HTML**, **CSS**, and **JavaScript** to showcase events, manage volunteer sign-ups, and educate visitors on composting best practices.
- Coordinated hands-on workshops at elementary, middle, and high schools statewide, teaching composting methods to hundreds of students and strengthening community engagement.

PROJECTS AND RELEVANT INVOLVEMENTS

Fake News Detector *Python, Flask, Chrome Extension, NLP*

- Developed a machine learning pipeline utilizing **TF-IDF** and a **PassiveAggressiveClassifier** with hyperparameter tuning to accurately classify news articles as fake or real. Integrated a **Flask API** with a Chrome extension to enable real-time analysis of highlighted text.

Fantasy Basketball Assistant *Python, Flask, React, SQLite, NBA API*

- Built a full-stack sports analytics application that automates real-time NBA data ingestion using the nba-api and stores player statistics in **SQLite**. Created a dynamic **React** interface to display live scores and fantasy recommendations.

Spotify-Analysis *R, TidyVerse, Data Visualization*

- Engineered a robust data-analysis pipeline in **R** that cleaned, visualized, and compared key Spotify track features across curated playlists. Utilized advanced statistical methods, correlation heatmaps, and **Tidyverse** tooling to extract actionable insights and enhance decision-making around music selection and audience engagement.

Punjabi Arts Academy Website *HTML, CSS, JavaScript, SQL*

- Designed a multi-layered, dynamic webpage using **HTML**, **CSS**, **JavaScript** and integrating secure payment tunnels and enhancing user experience with intuitive navigation. This is an addition to implementing robust **SQL** database structures to store attendee information and payment records.

SKILLS

Languages/Frameworks: Python, Java, HTML, CSS, JavaScript, SQL, Flask, React, R, TidyVerse, GraphQL, NLP

OTHER EXPERIENCE

Management and Consulting Club, University of Utah