

Ashish Job

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EDUCATION

University of Houston - Honor's College

Bachelor of Science in Computer Science, Minor in Mathematics

Expected: May 2025

GPA: 4.00

Relevant Coursework:

Algorithms, Database Systems, Machine Learning, Digital Image Processing, Data Structures, Discrete Math, Cluster Computing, R for Data Science, Computer Organization and Architecture

EXPERIENCE

NASA - IMOC III Avionics Systems Team

Machine Learning Intern

January 2024 - Present

Houston, TX

- Will be working with the development and implementation of **Artificial Intelligence** and **Machine Learning**

University of Houston - College of NSM

Undergraduate Academic Teaching Assistant

August 2023 – Present

Houston, TX

- Supported **250+** **students** in structured procedural programming and elementary functions in **Python**.
- Led weekly exercises, code-reviewed, and provided feedback for multiple **Python** programming assignments.

Structures and Artificial Intelligence Lab (SAIL)

Undergraduate Research Assistant

May 2023 – September 2023

Houston, TX

- Acquired and processed **6 datasets** for computer vision and language modeling, detecting risks within structures.
- Fine-tuned **NeRFstudio** and **LERF** resources to improve data processing efficiency and analysis accuracy.

Cyvergence.AI

Cybersecurity Intern

March 2023 – May 2023

Remote

- Conducted thorough evaluations of **12%** of the institution's threat feed monitoring policies with **Gap Analyses**.
- Led a team, effectively communicating and assigning duties to **9 team members** for streamlined collaboration.

PROJECTS

TBI Dataset Predictor | *Python, TesndorFlow, Pandas, NumPy, sk-learn, Git*

December 2023 - Present

- Developed a **predictive linear regression model** for TBI outcomes, utilizing advanced statistical techniques.
- Conducted data preprocessing and cleaning on datasets with **Pandas** and **NumPy**, for high data quality.

CanCare for Good | *ReactJS, Firebase, OpenAI Llama Index, Python, TypeScript, Git*

October 2023

- Won 1st place** at JPMC's hackathon by implementing strategies to increase the retention rate of a nonprofit org.
- Optimized the matching **algorithm**, reducing latency in resource matching and improving overall user experience.
- Integrated an **AI chatbot** to provide clients with quick and efficient resource access, ensuring 24/7 availability.
- Enhanced **UI/UX design** to achieve form completion, resulting in improved user engagement and satisfaction.

Portfolio Website | *TypeScript, Next.js, TailwindCSS, Git*

May 2023 - June 2023

- Enhanced user engagement with interactive components, boosting visitor retention and interest on the website.
- Ensured optimal viewing experiences across devices by using **TailwindCSS**' versatility in responsive web-design.

EXTRACURRICULAR

CougarCS Web Dev Committee | *Admin Portal & Revamp Team Member*

February 2023 - Present

- Enhanced the user experience of the admin portal by **20%** by implementing new features and ensuring bug fixes.
- Converted **30%** of the client code from **HTML, CSS, and JS** to **React.js, TypeScript, and TailwindCSS**.

Cougar AI | *Vice President Internal*

August 2023 - December 2023

- Fostered collaboration and drove initiatives to fulfill the club's mission while significantly enhancing its impact.
- Increased **member participation by 9x**, and **tripled** interactions with related companies and research labs.

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, TypeScript, HTML, CSS, R, SQL

Technologies/Frameworks: TailwindCSS, Git, Next.js, Figma, Linux, Shell, React.js, Kepler.gl, Vite, Docker