

# 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

## EXPERIENCE

### J.P. Morgan Chase

Incoming Software Engineering Intern

Incoming

Houston, TX

- Will be working on the Infrastructure Platforms team.

### NASA

Machine Learning Engineer Intern

January 2024 - Present

Houston, TX

- Optimized a **machine learning** model reducing total processing time by **5.26%** and CPU time by **3.32%**.
- Designed and implemented a **database** using **MS Access**, streamlining data storage and retrieval processes.
- Developed a **Neural Network** model using **Numpy**, **PyTorch**, and **Pandas**, achieving high accuracy rates.

### University of Houston - College of NSM

Undergraduate Teaching Assistant

August 2023 - Present

Houston, TX

- Supported **400+** 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**.
- Investigated and implemented **CLIP** fine-tuning tasks, **optimizing image and language relationships**.

### Cyvergence.AI

Cybersecurity Intern

March 2023 - May 2023

Remote

- Spearheaded evaluations, scrutinizing **12%** of the company's security policies through meticulous **Gap Analyses**.
- Implemented proactive measures, contributing innovative strategies to **fortify defense** against emerging threats.

## PROJECTS

### CanCare for Good | *ReactJS, Firebase, OpenAI Llama Index, Python, Flask, TypeScript, Vite.js, Git*

- 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.

### Templit Website | *TypeScript, React.js, TailwindCSS, Git, Flask, Python, Cloudflare*

- 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.
- Conducted extensive **UI/UX research**, incorporating public opinions to continually refine the design.

### DataSoc Project | *Python, Kepler.gl, Next.js, TypeScript, Pandas, NumPy, Git, Scikit-learn, Matplotlib*

- Spearheaded a project with **Kepler.gl** for dynamic data visualization, focusing on asthma cases in Harris County.
- Integrated **Python, Pandas, NumPy, scikit-learn, and Matplotlib** for robust linear regression models.
- Developed an interactive website with **Next.js**, seamlessly merging data insights for a dynamic user experience.

## EXTRACURRICULAR

### Cougar AI | *Vice President Internal*

August 2023 - December 2023

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

## TECHNICAL SKILLS

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

**Tools:** TailwindCSS, Git, Figma, Linux, Shell, Kepler.gl, Docker, Postman

**Frameworks/Libraries:** Next.js, React.js, Vite, PyTorch, TensorFlow, Pandas, NumPy, Scikit-learn, Matplotlib