

# Khyaati Khanna

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## EDUCATION

### University of Houston

B.S. in Computer Science

Houston, Texas

Expected Graduation, Dec 2025

- o **Minors:** Mathematics and Business Administration
- o **GPA:** 3.70/4.00, *Dean's List*
- o **Related Coursework:** Data Structures (C++/C), Computer Architecture (Assembly/C), Operating Systems (C++/C), Data Science and Machine Learning (R/Python), Algorithms and Data Structures (C++/Python), Software Design, Databases (SQL), Game Dev, Automata
- o **Relevant Certifications:** Microsoft Azure Quantum Computing, JPMC - Software Engineering Virtual Experience

## EXPERIENCE

### University of Houston- CS Department

Teaching Assistant

Houston, Texas

Jan 2024 – Present

- Managed grading process optimization for complex data structures & algorithms assignments by enhancing **Bash scripts**.
- Headed interactive lab sessions with **100+ students**, fostering problem-solving and critical thinking
- Dedicated **3 hours weekly** to office hours, offering guidance to students navigating challenging data structure concepts.

### USAA

Full Stack Software Engineering Intern

Dallas, Texas

May 2024 – Aug 2024

- Spearheaded migration of an application from **JBoss** to **Spring Boot**, conducting **unit tests** and **integration tests** with other applications, achieving over **90% code coverage** and significantly **improving system performance and reliability**.
- Enhanced **UI** for a web application using **AngularJS**, making it **more interactive and user-friendly**, resulting in a **40% increase** in user satisfaction and ease of information retrieval.
- Utilized **CI/CD GitLab Pipeline** for efficient deployment, developed **Ansible Playbooks (AWX)** for automation, and deployed containerized solutions with **OpenShift** to improve scalability and uptime.

### Dandilyonn Seeds

Application Development Intern

Fremont, California

May 2023 – Aug 2023

- Led a dynamic team of **five interns** as the Team Lead in developing an innovative **cloud-based** dining discovery application using **React**, to deliver real-time data access and scalability and applied **SQLite** for restaurant information storage.
- Implemented **Infrastructure as a Service (IaaS)** solutions on **AWS**, using **Elastic Block Store (EBS)** for scalable and durable block storage and **Amazon EC2** for flexible and scalable compute capacity.
- Employed **Git/GitHub** for version control and harnessing **Figma** to craft an intuitive and visually captivating **UI/UX**, significantly **boosting user satisfaction and engagement**.

## PROJECTS

### AbideAI (JP Morgan Chase - Code For Good 2024)

Oct 2024

- Worked in a team of 6 to build a patient and employee portal to **streamline workflows** and foster community engagement. Leveraged **Next.js**, **React**, and **Tailwind CSS** for the front end, hosted on **EC2**, and integrated **Microsoft SQL Server** with **.NET Core** and **C#** for efficient backend operations.
- Engineered a **comprehensive dashboard** to track **key metrics** and an **intuitive patient profile interface** for improved data access and **user experience**.

### Flight GPT (AI Flight Interactive Web App - 3rd place, PROS track)

Feb 2024

- Built an interactive web app at CodeRed Hackathon with a team of 4, using **JavaScript**, **Next.js**, and **TailwindCSS** for the front end. Integrated **five APIs**, including **MongoDB** and **Atlas Data API**, for data storage and retrieval, and used **Google Maps API** to help users find nearby hotels.
- Automated data comprehension and categorization using **OpenAI API**, seamlessly integrating with the **Amadeus Flight API**, and employed a data cleaning process before feeding it back into **OpenAI API** for **natural language generation**, resulting in the **intuitive user-friendly** flight path and accommodation description.

## LEADERSHIP

### NSM Student Leadership & SWE - Peer Mentor

Dec 2022 – Present

- Pioneered a holistic mentorship program, offering regular check-ins and workshops for academic and personal development. Guided **15+ students** in personalized course selections, ensuring a smooth transition and academic success.

### Code[Coogs] - Vice President External/Marketing Director

Sept 2023 – Aug 2024

- Directed external affairs, **securing 2 corporate sponsorships** and establishing partnerships with **4+ organizations**. Handled activities and marketing committees while also **overseeing** the historian's responsibilities.

**Other Activities:** Cougarettes (**ACM-W Chapter**), Watchful AI, **1st Place Winner** - ConocoPhillips Hackathon

## SKILLS

**Programming:** C++, Java, JavaScript, HTML/CSS, Typescript

**Frameworks & Tools:** VS Code, IntelliJ, Microsoft Azure, AWS, Springboot, Angular, React.js, Next.js, TailwindCSS, Docker, Git