

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

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.

University of Houston- CS Department

Teaching Assistant

Houston, Texas

Jan 2024 – Present

- Spearheaded 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
- Conducted weekly office hours, providing personalized assistance to students struggling with data structure concepts.

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iOS 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 utilized **SQLite** for restaurant information storage.
- Implemented and managed **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

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

Feb 2024

- Developed an interactive web application during a collaborative effort at the 24-hour Hackathon (CodeRed). Leveraged **JavaScript**, **Next.js**, and **TailwindCSS** for front-end development, integrating five API calls including **MongoDB** and **Atlas Data API** for robust data storage and retrieval. Utilized the **Google Maps API** to enhance user planning capabilities by locating nearby hotels.
- Employed **OpenAI API** for data comprehension and categorization, 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.

ACTIVITIES AND LEADERSHIP

Code[Coogs] - Vice President External

May 2024 – Present

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

Watchful AI - Co-founder/Secretary

May 2023 – Present

- Co-founded Watchful AI, an organization focused on fostering ethical AI practices within the university community, and conducted regular informational sessions for faculty, staff, and students, reaching **over 200 individuals**.

Cougarettes - Marketing Director

Feb 2023 – Present

- Managed design and distribution of promotional materials across **3+ social media channels**, cultivated **partnerships with 3 organizations** for joint marketing initiatives, and analyzed metrics to achieve a **15% increase in website traffic**.

NSM Student Leadership - Peer Mentor

Dec 2022 – Present

- Implemented 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.

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