

# 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++), Data Science and Machine Learning (R/Python), Software Design, Game Development, Digital Image Processing (Python)

## EXPERIENCE

### Amazon

Bellevue, Washington

Software Development Engineer Intern

Sept 2025 – Present

- Automated the **change management workflow** by building a **Python FastAPI backend** with a **custom MCP server**, reducing the time to create **20 change requests** from **4 days to <15 minutes**, and providing supporting tools for engineers.
- Developed a **React.js chatbot** interface integrated with **Amazon Q (LLM)** and **authored standardized templates** for change and ticket requests, enabling the AI to generate the change records, **validate completeness**, and streamline the management system, which boosted efficiency.

### University of Houston- CS Department

Houston, Texas

Teaching Assistant

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.

### JPMorgan Chase & Co.

Plano, Texas

Software Engineering Intern

June 2025 – Aug 2025

- Built a full-stack **UI dashboard** proof of concept (POC) using **React.js** and **JPMorgan's enterprise design system (MDS)**, delivering a **polished user experience** aligned with **internal UX standards**.
- Modernized legacy internal tools to improve **accessibility** and **responsiveness**, reducing navigation time by **~30%** and **enhancing usability** for internal stakeholders.
- Architected and **deployed a Kafka-based task event pipeline** on **AWS** with a **team of 4 interns**, leading **schema design**, **staging table setup**, **DRB approvals**, and **implementing consumers/processors** with **90%+ JUnit test coverage** for reliable microservice data handling.

### USAA

Plano, Texas

Software Engineering Intern

May 2024 – Aug 2024

- Enhanced UI for an internal all-employee tool that gives user permissions using **AngularJS**, making it **more interactive and user-friendly**, resulting in a **40% increase** in user satisfaction and ease of information retrieval.
- Spearheaded the 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**.

## PROJECTS

Syntora (AI-Powered Visual Creation Studio - [syntora.app](#))

April 2025

- Designed and built the **entire frontend** of an **AI-driven image creation platform** using **Next.js**, **React**, **Tailwind CSS**, and **Framer Motion**, implementing **responsive, accessible UI across all pages**, including **prompt crafting** and **image library**.
- Integrated **OpenAI APIs** for **image generation**, **prompt analysis**, and **crafting**; implemented **Supabase Auth**, storage, and database, and connected **Stripe** for paid plans — delivering a **fully functional, scalable app** with a **polished user experience**.

Synkly (iOS playlist synchronization app)

Dec 2024

- Crafted a **seamless user experience** using **SwiftUI**, enabling **smooth playlist syncing** and interaction between Spotify and Apple Music with a clean, responsive UI.
- Integrated **Firebase** with **FastAPI** for **auth** and **data**; used **XCTest** to ensure **reliable UI** and **feature performance**.

## 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**), Code for Good - JPMC Hackathon, **1st Place Winner** - ConocoPhillips Hackathon

## SKILLS

**Languages:** JavaScript, HTML/CSS, TypeScript, Swift, Python, Java, C++

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