Khyaati Khanna

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EDUCATION

University of Houston   **Houston, Texas**
B.S. in Computer Science   *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), Data Science and Machine Learning (R/Python), Software Design, Game Dev, Digital Image Processing (Python)

EXPERIENCE

JPMorgan Chase & Co.   **Plano, Texas**
Software Engineering Intern   *June 2025 – Present*
- Built a full-stack **UI dashboard** proof of concept (POC) using **React.js** and **JPMorgan's enterprise design system (MDS)**, delivering a **consistent** and **polished user experience** aligned with **internal UX standards**.
- Modernized legacy internal tools to improve **accessibility** and **responsiveness**, reducing page navigation time by **~30%** and **improving usability** for internal stakeholders.
- Architected a **Kafka-based task event pipeline** with a **team of 4 interns**, leading **schema design**, **staging table setup**, **DRB approvals**, and **deployment to AWS**.
- Developed **Kafka consumers and processors** with **90%+ test coverage** using **JUnit** and **Cucumber**, ensuring robust and **reliable data handling** across microservices.

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.

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 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**.

Flight GPT *(AI Flight Interactive Web App - 3rd place, PROS track)*   **Feb 2024**
- Designed and developed a **responsive**, **user-friendly interface** using **Next.js**, **JavaScript**, and **TailwindCSS**, integrating the Google Maps API to help users visualize nearby hotels and **enhance** the trip planning experience.
- Integrated five APIs, including **OpenAI**, **Amadeus Flight API**, and **MongoDB Atlas,** to automate **data processing** and g**enerate natural language** itineraries, enabling smooth, **real-time interaction** across the app.

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