Heena Khan

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EDUCATION

Stanford University **Expected Graduation:** December 2026/March 2027

Bachelor of Science, Computer Science - Artificial Intelligence

Relevant Coursework: Programming Abstractions, Data Structures & Algorithms Discrete Mathematics, Probability and Statistics, Artificial Intelligence, Operating Systems, Computer Systems, Human-Computer Interaction Design

EXPERIENCE

Software Engineering Intern — Data Platform

Neurotrack Technologies Palo Alto, CA | June 2025 – August 2025

- Designed and implemented modular data-processing pipelines in Python and R to clean, structure, and analyze 10k+ cognitive assessment records, producing reproducible outputs that informed product decisions.
- Preprocessed raw cognitive performance data with SQL and ETL jobs to improve data quality and support accurate performance evaluation and downstream model work.
- Contributed to optimization of Neurotrack's digital cognitive assessment used by clinicians and patients worldwide for early detection and monitoring of Alzheimer's disease.

Stanford Design Fellow

Pull for Progress Palo Alto, CA | 2024 - Present

- Built interactive web apps with HTML/CSS, JavaScript, D3.js (responsive, accessible); shipped data-stories that raised engagement and helped secure collaborations incl. Stanford Global Health Center.
- Developed a geospatial deployment tool (Python, Pandas, Folium) that models healthcare-worker allocation with risk scoring + cost-effectiveness; produced an interactive map used to prioritize N regions and estimate cost per person reached.
- Co-created short-form video content with the Stanford Global Health Initiative highlighting Burkina Faso work; handled light scripting, filming, editing, and captions; published across Reels/YouTube/LinkedIn.

Stanford Tech and Innovation Fellow

Afghanistan Women's Council New York, NY | 2023 – 2024

- Built and launched an e-commerce web app in React with responsive CSS Grid, enabling 100+ Afghan women artisans to showcase and sell handmade goods to global audiences.
- Collaborated with the Afghanistan Women's Council to scope features and design the front-end architecture; prioritized low-bandwidth and accessible patterns (semantic HTML, keyboard nav, alt text).

PROJECTS

ModestFilter AI – Chrome Extension

JavaScript, React, Python, HuggingFace, OpenCV

- Built an MV3 Chrome extension that filters apparel grids via hybrid rules + on-device vision; Web Worker pipeline (OffscreenCanvas/ImageBitmap) for real-time sleeve/neckline/crop checks.
- Robust card detection (DOM heuristics, Intersection/MutationObserver) + JSON-LD extraction; CORS-safe proxy + caching and visible-tile gating improved perceived latency.
- Configurable rules engine with chrome.storage.sync; ~3–5× speedup over naïve scans while preserving filtering quality.

Mobile Maristan

React Native, Figma

- Built an offline-first PWA with install prompts and caching via service workers for a native-like experience.
- Implemented mood tracking and journaling system with sentiment analysis; persisted data in Postgres via Drizzle ORM.
- Designed REST endpoints, session-based auth, role-scoped access, and user preference storage in Express + PostgreSQL.
- Added real-time guided audio (Web Speech API) with session tracking and curated content management.

SKILLS

Programming Languages: Python, C++, Java, R, SQL, HTML/CSS, JavaScript, Node.js

Frameworks & Libraries: React, Pandas, Folium, OpenCV

Tools & Platforms: Git, Figma, HuggingFace, Chrome APIs