

Sara Khan

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PROJECTS

- GlobalPulse (AI Sentiment Dashboard)** | *React, Flask, Firebase, Gemini AI, Tailwind* 2025
- Developed a real-time sentiment analysis dashboard that visualizes public opinion on global topics using Gemini API.
 - Integrated live polling, region-based heatmaps, and topic trend graphs; users can compare sentiment shifts by region or keyword.
 - Engineered backend endpoints with Flask and Firestore to support dynamic querying, AI text classification, and chart rendering.
- Wandr (Lifestyle Relocation AI)** | *React, Flask, Firebase, Gemini AI* 2025
- Developed an AI-driven system that profiles user behavior to recommend optimal city locations with context-aware mapping and lifestyle inference.
 - Engineered prompt-tuned profiling and persistent location saving with async error handling and session restoration.
 - Achieved 90% user satisfaction in a pilot study with personalized recommendations from Google Takeout data.
- Knowly (AI Learning Companion)** | *React, Azure Functions, Gemini, Cosmos DB* 2025
- Created an adaptive learning companion using Gemini that dynamically converts static content into personalized, multimodal study tools.
 - Integrated OCR, YouTube scraping, and multimodal pipelines to support flexible student learning styles.
 - Tested by 40+ students with 85% reporting improved engagement and content retention.

EXPERIENCE

- Junior Software Developer Intern** Summer 2025
WebSurfing Studios (Remote)
- Collaborated on internal contributor platform design with real-time sync (Firebase Realtime DB), modular REST endpoints, and schema-driven UI scaffolding — introduced reusable UI components and contributor guides that cut onboarding time by 30%.
 - Shipped features weekly with CI/CD pipelines, design reviews, and PR ownership in agile sprints.
- Hackathon Highlights** Spring 2025
Various Universities
- BugBot** (HawkHacks — *Best Overall Project*): Research-based AI debugging assistant using OpenAI + Flask; optimized for developer onboarding.
 - ChemoPal** (UncommonHacks): AI-powered voice/text companion built with Gemini + Twilio for chronic illness support.
 - FitPets** (WildHacks): Gamified habit tracker with Django backend and AI-generated health tips; tested with real event users.
 - StudyFi** (HSHacks): AI study tool featuring flashcards, Q&A, and semantic suggestions; adopted by demo week participants.

EDUCATION

- Western Governors University** Millcreek, UT
Bachelor of Science in Computer Science Anticipated Graduation: 05/2026
- Harper College** Palatine, IL
Associate of Applied Science in Information Systems Graduated: 05/2025

TECHNICAL SKILLS

- Languages:** JavaScript, Python, Java, C#, HTML, CSS, SQL
- Frameworks & Libraries:** React.js, Express.js, Django, FastAPI, Node.js, Flask, Tailwind CSS, Firebase
- Developer Tools:** Git, GitHub, VS Code, Figma, Postman, Replit, Vercel, Netlify, PyCharm
- APIs & Platforms:** OpenAI API, Gemini AI, Twilio, Google Maps API, Firebase Firestore, MongoDB
- Practices:** Agile, Prompt Engineering, CI/CD, GitHub Actions, UX Testing, Beta Launches
- CS Foundations:** Algorithms, Data Structures, OOP, System Design, Networking
- Coursework:** Web Dev, Systems Analysis, DB Management, Networking, IT Support, Intro to Programming
- Research Interests:** Applied AI, developer tooling, human-centered systems