Sara Khan

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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*

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.

PROJECTS

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.

Reccy (LLM Streaming Recommender) | *Gemini API, Node.js, Google Cloud Functions* — 2025

- Engineered a context-aware content engine that interprets mood-driven input and cross-references live streaming availability in real time.
- Implemented fallback logic for ambiguous queries using Gemini + open APIs, improving match success by 28%.
- Deployed a scalable modular backend using prompt chaining and serverless GCP functions.

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 100+ students with 85% reporting improved engagement and content retention.

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