

HASSAN KHANAFAER

Boston, MA • 816-288-4569 • hassan.khanafer100@gmail.com
linkedin.com/in/hassan-khanafer-9a9706264 • github.com/hassankhanafer123

Data Science & Psychology student at Northeastern who builds data-driven products — from statistical-analysis pipelines in Python to full-stack apps. Seeking a remote part-time product or data/analyst role.

EDUCATION

Northeastern University

Boston, MA

B.A. in Data Science & Psychology | Expected April 2028

Relevant coursework: Data Science (DS 2500), Foundations of Data Science (DS 3000), Database Design (CS 3200), Statistics in Psychological Research

EXPERIENCE

Sales Representative — Club Monaco

Boston, MA | Sep 2025 – Dec 2025

Generated ~\$1,000/day in personal sales by selling through the brand's story and the feel of the product rather than generic pitches, building customer relationships in a luxury-retail setting.

Cash Register Operator — Wegmans Food Markets

Burlington, MA | Mar 2023 – Present

Process fast, accurate transactions for 200+ customers per shift, delivering customer-facing service all day, every shift.

Maintenance Supervisor — Wegmans Food Markets

Burlington, MA | Feb 2024 – Jun 2024

Ran maintenance department operations independently, managing a team of 3 across rotating shifts and keeping the store organized and functional.

Coordinated rotating responsibilities across the team and resolved facility issues on the spot without escalation.

Program Coordinator & Operations Supervisor — Northeastern University

Oakland, CA | Sep 2024 – Apr 2025

Coordinated ~3 campus events per week (10–50 attendees each), planning end-to-end and tracking participation data to guide future programming.

Oversaw daily facility operations and student services as part of a team.

PROJECTS

Prediction Markets Analysis

DS 2500, Northeastern | Spring 2026

Owned the correlation & divergence analysis on a 4-person team comparing how two prediction markets (Kalshi, Polymarket) priced the same election events.

Implemented Pearson correlation, t-statistics, and p-values from scratch in Python (no NumPy/pandas, per class rules); built a divergence detector that flagged 22,500+ disagreements (>10% spread) across 130 markets and output per-market stats and matplotlib charts.

HoopSpot — Database Design Capstone

CS 3200, Northeastern | Spring 2026

On a 5-person team building a basketball-court discovery and pickup-play platform, built the Flask REST API backend — the endpoints and the SQL behind them (filtering, joins, aggregates, subqueries for player stats and leaderboards, and soft-deletes that preserve game history) on a relational MySQL database.

AI Office

Personal Project | 2026

Designed and built a 3D interface for directing a team of AI agents — a spatial command center where each agent's live state (thinking, working, done, blocked) is visible and steerable; built the interface in React + react-three-fiber, wired to a Node/TypeScript orchestrator that streams live events over WebSocket.

DayMaxing

Personal Project | 2026

Designed and built a gamified habit tracker grounded in behavioral psychology — habits across three stats (Intelligence, Strength, Discipline), XP, streaks, and weekly level-ups at 85% completion, with locked/auto-computed XP so it can't be gamed and a scroll-driven 3D UI; Next.js/React front end, Python/FastAPI backend, Supabase (Postgres).

AI Automator

Al Nebras Montessori School, Doha, Qatar | Summer 2025

Built a Python WhatsApp chatbot that took over the school's routine staff-handled interactions — FAQs, schedule queries, and open-house/meeting booking straight from the school calendar — removing manual coordination for staff.

Designed a human-in-the-loop escalation path: when a request exceeded what the bot could handle, it pinged a staff member who took over the conversation seamlessly.

TECHNICAL SKILLS

Languages: Python, SQL

Data: Data Analysis, Data Cleaning, Statistical Analysis (t-tests, correlation, regression), Data Visualization (matplotlib), pandas

Tools: Excel, Google Sheets, MySQL, Flask, REST APIs, React/Next.js, Docker, Git

Spoken: English (native), Arabic (fluent)