HADI AHMAD

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EDUCATION

UNIVERSITY OF MINNESOTA – TWIN CITIES Minneapolis, MN
Bachelor of Science in Computer Science and Computer Engineering *Expected May 2027*
University Honors Program | Dean's List | 3.85 Technical GPA
Relevant Coursework: Computer Architecture, Program Design & Development, Operating Systems, Data Structures & Algorithms, Computational Genomics & Bioinformatics, Linear Algebra & Diff Eq
Awards: Presidential Scholarship, Iron Range Scholarship, Dakota Electric Association Scholarship

PROJECTS

MIRAGE – mirag.app *August 2025 – Present*
MacOS UI Overlay for OpenRouter
- Built a macOS desktop utility for the **OpenRouter API**, enabling seamless interaction with multiple AI providers.
- Implemented modular code to handle multi-model queries, memory, and chat session management.
- Designed a lightweight UI overlay, aimed to increase usability, user productivity, and workflow efficiency.
- Built a **LangChain** RAG memory system, deploying vector search and a **Node.js** backend on a dockerized **AWS EC2**

PLANUMN – planu.mn *Apr 2025 – Aug 2025*
- Launched a drag-and-drop, mobile-adaptive graduation planning tool used by **80+** UMN students pre-release.
- Deployed a transcript import feature that parses unofficial UMN PDFs to auto-fill completed courses.
- Integrated a **PostgreSQL** schema via **Supabase**, with user authentication, RLS, and server-side permission checks.
- Built responsive UI components using **Next.js** and **TypeScript**; server-side **SQLite** for fast course data fetching.
- Gathered user feedback and iteratively launched features like autosave, plan sharing, and transcript import.

GENE EXPRESSION ANALYSIS – Course Project *Apr 2025 – May 2025*
- Built a tensor decomposition pipeline with **MATLAB**'s Deep Learning plugin to analyze spatial transcriptomics data
- Applied **GraphTucker** to extract low-rank spatial features from 3D gene-spot tensors, for unsupervised clustering.
- Derived biologically relevant insights; Identified clusters associated with immune response, chemoresistance, and tumor growth using PPI networks and BIOGRID datasets. Presented results with biological interpretations.

WORKOUT TRACKER – Personal Project *Nov 2024 – Present*
Cross-Platform Workout Tracker / Planner
- Built a **React Native** app for logging and tracking long-term strength training progress.
- Scraped exercise and targeted muscle group data using Playwright, creating a dataset for planning and recommendations.
- Conducted informal **user research** with students to identify key pain points in day-to-day use.

PROFESSIONAL EXPERIENCE

TARGET Lakeville, MN
Front of Store Attendant *Jul 2024 – Jan 2025*
- Handled high-pressure customer issues, including complaints and equipment failures; consistently entrusted with solo closing responsibilities such as securing equipment inventory and locking down parts of the building.

TECHNICAL SKILLS

LANGUAGES – Python, **Java**, **JavaScript**, **TypeScript**, **C**, **C++**, **Swift**, **SQL**, HTML, CSS, Lua, R, MATLAB
TECHNOLOGIES – Git, GitHub, Docker, Xcode, Firebase, AWS, Azure
LIBRARIES & TOOLS – Numpy, MATLAB Deep Learning, PyTorch, **SwiftUI**
FRAMEWORKS – React Native, **Next.js**, **Node.js**, Express.js, LangChain *Bolded skills are proficient, otherwise familiar.