

HADI AHMAD

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EDUCATION

UNIVERSITY OF MINNESOTA – TWIN CITIES

Bachelor of Science in Computer Science and Electrical Engineering

Minneapolis, MN

Expected May 2027

University Honors Program | Dean's List | 3.75 Cumulative GPA | 3.85 Technical GPA

Relevant Coursework: Computer Architecture, Database Systems, 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

JIKO | *Node.js, AWS, SQL, Swift, LangChain* | jiko.life

October 2025 – Present

AI Reminder System with Behaviour Modeling

- Conceptualized Jiko to repurpose historically exploitative engagement metrics into growth-oriented insights.
- Engineered a **Node.js** backend on AWS EC2 with **Express.js** REST APIs, scheduled cron jobs, and automated trigger evaluation pipelines. Leveraged S3, PostgreSQL, and DynamoDB for scalable persistent storage and TTL data pruning.
- Developed an iOS app and macOS companion utility that posts key events to a Node.js backend with Express.
- Implemented a trigger-to-action engine that delivers personalized reminders based on usage and workload metrics.
- Integrated **Canvas LMS API** to fetch assignment data and use deadlines to calculate workload.
- Currently fine-tuning a chatbot using personal message data; building a Twilio-based system for real-time reminders.

MIRAGE | *Swift, OpenRouter API* | mirag.app

August 2025 – October 2025

MacOS UI Overlay for OpenRouter

- Built a macOS desktop utility for the **OpenRouter API**, enabling seamless interaction with multiple AI providers.
- Implemented modular code in **Swift** handle multi-model queries, memory, and chat session management.
- Designed a lightweight UI overlay, aimed to increase usability, user productivity, and workflow efficiency.

PLANUMN | *React, Next.js, TypeScript, PostgreSQL, SQLite* | planu.mn

April 2025 – August 2025

Graduation Planner Web Application

- 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 | *Tucker Decomposition, MATLAB* | **Course Project**

April 2025 – May 2025

Colon Cancer Gene Expression Project

- 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.

PROFESSIONAL EXPERIENCE

RETAIL / FOOD SERVICE EXPERIENCE

Lakeville, MN

Blaze Pizza • Planet Fitness • Target • Walmart

Sep 2022 – Oct 2025 (2 years aggregated)

- Consistently completed time-based and recurring operational tasks (hourly facility checks, daily cleaning cycles)
- Handled high-pressure, high-volume situations with efficiency (long lines, equipment failures, customer altercations)

TECHNICAL SKILLS

LANGUAGES: Python, Java, JavaScript/TypeScript, C/C++, Swift, SQL, HTML/CSS, MATLAB, Verilog

TECHNOLOGIES: Git/GitHub, React/React Native, Node.js, AWS, PostgreSQL, Xcode, Docker, LangChain, Django