

Ayaan Arshad Sattar

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Programming Languages: Python, Java, HTML/CSS, JavaScript/Typescript, C/C++, SQL

Technologies: React, Next.js, NextAuth, Prisma, React Native, FastAPI, Flask, MongoDB, Supabase, Firebase, SQLite, Git, Github Actions, Docker, Docker Compose, Redis, Caddy, k6, Tailwind CSS, node-cron, ChromaDB, sentence-transformers

Education

University of Massachusetts Amherst

GPA: 3.867

Expected Graduation: May 2027

B.S. in Computer Science & Mathematics (Mathematical Computing Concentration), Business Minor

Courses: Scalable Web Systems, Web Development, Data Structures & Algorithms, Object-Oriented Programming, Software Entrepreneurship, Systems Programming, Discrete Math

Projects

FixSpotify | [Web App](#) | [GitHub](#) | Next.js, TypeScript, NextAuth, Prisma, SQLite, Docker, Gemini API, Recharts

- Built a full-stack Spotify analytics platform that syncs listening history every 15 minutes via `node-cron`, ranks tracks across 3 windows (6-month, 1-year, lifetime), and visualizes listening with Recharts—most/least track & artist ranks (top/bottom 15), time-series charts, and 0–100 playlist health scores.
- Engineered 3-stage track-identity resolution (exact Spotify ID -> soft title/artist match -> ISRC) to merge fragmented play counts across duplicate/localized track IDs, preventing skewed listening analytics.
- Integrated Gemini to classify playlist fit against user-written intents and artist-cohesion rules into 3 outcomes (belong / possible misfit / needs AI), flagging misfiled tracks and recommending data-informed reassignments.

OneStopProf | [Web App](#) | [GitHub](#) | Python, Streamlit, ChromaDB, Groq API, sentence-transformers, httpx

- Built a RAG-powered course-planning assistant, scraping and cleaning 10,000+ real-world Rate My Professors reviews and embedding them with sentence-transformers into ChromaDB for semantic retrieval.
- Designed course- and professor-aware retrieval filters to surface relevant evidence from messy review data, then used Groq's Llama 3.3 to generate cited, data-grounded recommendations and course comparisons.
- Built a resumable scraping and upsert pipeline to keep the underlying dataset current, translating raw review text into structured, actionable course/professor insights via a multi-mode Streamlit interface.

UAppen | [GitHub](#) | [Demo](#) | React Native, Typescript, Expo, FastAPI, Python, Supabase, SQLite

- Collaborated with a team of 2 developers to architect a cross-platform React Native app with Supabase authentication (domain-restricted to @umass.edu), and dynamic event filtering across 50+ campus locations.
- Architected FastAPI-based event pipeline with httpx scraping, paginated API (50 events/request), SQLite deduplication, and 2-hour APScheduler jobs for real-time sync (<10s latency).
- Engineered location parser with regex normalization and mapped coordinates (50+ buildings), cutting parsing errors by 90% and enabling smart event categorization, mapping 30+ raw event types into 10 main types.

Experience

Front-End Engineer | [No Bad Days Club](#) - Gamified travel and experiences

Nov 2025 – Present

- Collaborated with cross-functional teams to build a multi-page marketing site using Next.js 14, React 18, TypeScript, and Tailwind CSS for consumer and partner audiences, increasing user engagement by 73%.
- Implemented responsive, mobile-first layouts and optimized performance with image optimization, custom font loading, and smooth navigation.
- Refactored the app codebase from a monorepo to multiple repos, documenting workflows to clearly explain technical changes to collaborators and improve maintainability and CI/CD.

Office Staff | UMass Amherst New Student and Family Programs

May 2026 – Present

- Managed front-line communications via Salesforce, responding to email and phone inquiries from 6,300+ students and 2,500+ family members regarding orientation logistics and program details.
- Awarded Office Staff of the Year for outstanding performance and reliability.

Resident Assistant | UMass Amherst

Aug 2025 – Present

- Served as primary contact for 30+ residents, providing academic, personal, and housing support (15–20 hrs/week).
- Organized 5+ community events per semester (20–25 attendees) while upholding university policies.

Leadership & Communication

President of the UMass Badminton Club

Sep 2023 – Present

- Led a 300+ member organization; ran weekly practices (25+ players), organized 5+ tournaments/scrimmages, and secured \$1,000 in Yonex funding for UMass Amherst's first 6-team intercollegiate invitational.