

Rayyan Haider

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EDUCATION

The University of Texas at Austin

Bachelor of Science in Computer Science, Minor in Business | GPA: 3.4

May 2029

Austin, TX

Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Management Information Systems

EXPERIENCE

Voushify

Software Engineering Intern

May 2026 – Present

- Build and ship backend features using FastAPI, SQLAlchemy, PostgreSQL, Redis, and Celery across authentication, profiles, request workflows, sharing, and billing.
- Developed OAuth identity linking and unified user provisioning, including automatic account creation and unique handle generation for first-time users.
- Resolved repeated 401 errors during magic-link sign-up by implementing optional authentication and automatic user provisioning.
- Translate a 40+ page technical PRD into scoped services, API changes, validation logic, and Alembic migrations while coordinating shared PostgreSQL schema updates through reviewed pull requests.

Muslim Professional Society

Student Software Engineer

Jan 2026 – Present

Austin, TX

- Built a full-stack SEO auditing platform using Node.js, Express, Next.js, React, and Supabase, processing 12,000+ keywords across 50+ seed queries.
- Developed a classification and ranking pipeline that groups keywords by search intent and scores opportunities using search volume, competition, and page relevance.
- Designed a Next.js dashboard with SWR data fetching to visualize keyword priorities, competitor gaps, and content opportunities, replacing approximately 15 hours of manual analysis per month.

AxeGenAI

AI Engineering Intern

Sep 2024 – May 2025

Melissa, TX

- Fine-tuned PyTorch-based language models after analyzing 10+ AI/ML research papers and documented architecture decisions, training results, and downstream limitations.
- Developed an Amazon Lex banking chatbot with custom intents, fallback handling, and AWS integrations to resolve common simulated customer-service requests.
- Built a Python RAG pipeline for answering questions from PDFs and created a 20-question evaluation set to measure retrieval accuracy and identify failure cases.

PROJECTS

Journal-RAG | Python, ChromaDB, BM25, RAG, Information Retrieval

2026

- Built a hybrid retrieval system over four years of journal entries, indexing 3,600+ chunks with ChromaDB dense retrieval and BM25 sparse search.
- Preprocessed and chunked journal entries using pandas and sentence-transformers for efficient semantic and date-based retrieval.
- Generated embeddings and structured metadata supporting natural-language queries, source citations, exact-match retrieval, and date filtering.
- Created an evaluation suite with 68 automated tests and 18 golden cases spanning retrieval quality, tool selection, exact-match behavior, and LLM faithfulness.

Full-Stack Personal Finance Platform | TypeScript, React, FastAPI, PostgreSQL, Plaid

2026

- Architected a full-stack fintech application with nine REST API domains for accounts, budgeting, transactions, financial goals, and reporting.
- Designed asynchronous SQLAlchemy models, service layers, and Pydantic validation to maintain consistent data flows across financial features.
- Engineered a tool-using financial assistant with deterministic calculation functions and real-time SSE streaming, achieving sub-second first-token latency.

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, JavaScript, SQL, Bash, HTML/CSS

Frameworks: FastAPI, React, Next.js, Node.js, Express.js, PyTorch, Tailwind CSS

Databases & Infrastructure: PostgreSQL, Redis, Supabase, ChromaDB, Docker, AWS, Celery

Libraries & Testing: SQLAlchemy, Pydantic, pandas, NumPy, sentence-transformers, pytest, SWR

Developer Tools: Git, GitHub Actions, Linux/Unix, REST APIs, Alembic, OAuth