

Joshua Shargo

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EDUCATION

DePaul University

Expected November 2026

Bachelor of Science in Computer Science, Artificial Intelligence Concentration

- GPA: 3.74/4.00

WORK EXPERIENCE

AI Researcher

June 2024 – Present

DePaul University

Chicago, IL

- Developed a Retrieval Augmented Generation (RAG) nutrition chatbot in pure Python that helps prevent lifestyle diseases for underprivileged populations in medically underserved regions.
- Engineered a Deep Learning algorithm that devises daily meal plans enhancing dietary adherence by 40%, personalizing suggestions based on individual health profiles and lifestyle objectives.
- Implemented a classifier-based sentiment filter on the chatbot's responses utilizing Natural Language Processing (NLP) to advise individuals in an emotionally sensitive manner, improving user trust and engagement.
- Deployed the dockerized chatbot to a React Native web application, where a patient's specifications are loaded to the model's knowledge-base and used to generate custom dietary suggestions.

Co-Founder

January 2024 – Present

IntelliPickz

Remote

- Developed an AI forecasting model utilizing an ensemble of Deep Learning techniques, achieving a 73% accuracy in forecasting NFL, MLB, and NBA player performance metrics.
- Crafted a data sourcing and cleaning script to collect live sports statistics for ML model training.
- Created a Twitter (X) page serving daily detailed player analyses to over 4,600 followers and a premium subscription Discord service to more than 1,300 monthly active users.

AI Developer/Full-Stack Developer

May 2023 – September 2023

Statera RE

Chicago, IL

- Designed and launched an AI-driven support tool to translate natural language into SQL response queries, reducing the amount of requests to support teams by 60%.
- Enhanced the enterprise software environment by developing and executing test protocols for existing C# code, resulting in a 30% reduction in development team downtime.

PROJECTS

Strike Network

October 2024 – Present

- Spearheaded development of a platform to streamline NIL sponsorships for athletes and businesses.
- Engineered a content-based matching algorithm using cosine similarity and feature vectorization to optimize athlete-brand pairing within the digital marketplace app.
- Deployed a full-stack React Native web and mobile app utilizing Supabase and PostgreSQL for real-time data sync and secure user authentication.

Ionic – IWS

September 2024 – January 2025

- Developed a managed payment gateway that achieves a 99% reduction in settlement time for ACH settlements.
- Integrated Solana and Bitcoin blockchains for near-instant, low-cost transactions.
- Utilized AWS Keystore to manage encryption keys for hierarchical deterministic wallets.

TECHNICAL SKILLS

- Languages/Databases:** Python, SQL, Typescript, C/C++, ChromaDB, C#
- Libraries/Frameworks:** Pandas, NumPy, SciKit-Learn, PyTorch, React, Langchain, Node.js
- Developer Tools:** Git, Docker, AWS, PostgreSQL, Redis, Azure, Supabase