

Muhammad Hashir

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EDUCATION

SAINT LOUIS UNIVERSITY, St. Louis, MO

EXPECTED GRADUATION: December 2025

Bachelor's in Computer Science

Relevant Coursework: Object-Oriented Programming (Python), Data Structures (C++), Computer Organization & Systems (C), Object-Oriented Software Design (Java), Operating Systems (C)

PROFESSIONAL EXPERIENCE

OPEN SOURCE WITH SLU, St. Louis, MO | Python, React.js, PostgreSQL, Docker | [Github](https://github.com)

AUGUST 2024 - Present

DADS: A Database of Arithmetical Dynamic Systems

- **Spearheaded** the redesign of the front-end architecture using **React.js**, improving scalability, and **maintaining** a responsive design for seamless user interactions.
- **Implemented PostgreSQL** indexing strategies to **enhance** the performance of data-intensive queries, achieving a ~5% improvement in retrieval efficiency.
- **Collaborated** with a team to ideate and execute features that expand the system's functionality, contributing over **6 sprints** of well-documented and maintainable code.

PROJECTS

PERSONAL PORTFOLIO | TypeScript, React.js, Next.js, Tailwind CSS | [Github](https://github.com) | hashir.fyi

Spring 2025

- **Designed** and developed a terminal-inspired portfolio website using **Next.js**, **React.js**, and **Tailwind CSS**, demonstrating strong front-end skills and creative UI/UX implementation.
- **Engineered** a responsive bento grid layout with custom terminal components, applying advanced CSS techniques to create an **interactive** developer experience that showcases technical proficiency.
- **Implemented** PDF resume viewing functionality with **client-side routing**, optimizing user experience by enabling visitors to access professional credentials without requiring file downloads.

SCRAPEFY | Python, Streamlit, Selenium, BeautifulSoup | [Github](https://github.com)

Fall 2024

- **Developed Scrapefy**, an **AI-powered web scraper**, utilizing **Selenium** and **BeautifulSoup** to automate and parse website content with a user-friendly **Streamlit** interface.
- **Integrated Ollama LLM** for intelligent content extraction, enabling users to define custom instructions for parsing data from scraped websites.
- **Optimized data processing** by splitting large DOM structures into smaller chunks, improving the efficiency of AI-driven analysis and content extraction.

LEADERSHIP

STLCC MUSLIM STUDENT ASSOCIATION, KIRKWOOD, MO

AUGUST 2022 - Dec 2023

Founder/President

- **Managed** a budget of **\$2,000+** for association activities, **optimizing** resources to maximize event quality and reach.
- **Coordinated 2** large-scale events in **2** months, including trivia night and dialogue with a guest speaker, attracting an average of **50+** attendees per event.

TECHNICAL SKILLS

- **Languages:** Python, C/C++, Java, TypeScript, JavaScript, HTML/CSS
- **Frameworks & Libraries:** React.js, Next.js, Tailwind CSS, Streamlit, Selenium, Langchain, BeautifulSoup
- **Technologies & Tools:** Git, PostgreSQL, Docker, Ollama LLM, Figma, VS Code, MS Office