

FUAD HASSAN

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EDUCATION

Temple University
Bachelor's, Data Science Concentration in Computational Analytics

August 2021 - May 2025

PROFESSIONAL EXPERIENCE

Cloud Data Engineer Intern

May 2024 - Present

Comcast

- Managed the aggregation and integration of diverse cloud-related inquiries from over 300 queries per week across JIRA, Teams, and Slack into a scalable Elasticsearch-based vector database operating on AWS VM
- Increased operational efficiency by 30% by leading the development of a real-time analytics dashboard, facilitating the visualization and tracking of question trends, and enabling proactive client support strategies
- Enhanced an existing RAG model by 25% through the fine-tuning using 100,000+ data points extracted from the database, optimizing response accuracy by leveraging high-level natural language processing techniques
- Participated in meetings with executive leaders, providing data-driven answers to their queries and delivering solutions to inform decision-making

Finance Data Automation and Analysis

July 2023 - Present

Temple Finance Department

- Utilized Python to develop automated scripts for efficient and accurate extraction of financial data from SEC.gov website, ensuring up-to-date and reliable datasets for analysis
- Leverage BeautifulSoup web scraping to efficiently navigate intricate web structures and extract precise financial data from diverse sources, optimizing data collection and saving 99% time
- Proto-typed and implemented staged Data models for ELT data pipeline for future use and portability Analytics Engineer

IS Technology Intern

May 2023 - August 2023

Children's Hospital of Philadelphia

- Resolved hardware and software issues promptly, ensuring uninterrupted operations for end-users
- Provided exceptional service by documenting and resolving items with precision to achieve high satisfaction
- Demonstrated elite troubleshooting skills, swiftly diagnosing, and resolving complex problems across hardware, software, and peripherals
- Streamlined issue management by efficiently handling queues and implementing innovative enhancements
- Acted as a reliable liaison between clients and the IS Department, facilitating seamless communication

Python Teaching Assistant

August 2022 - December 2022

Temple University

- Instructed and assessed 40+ students with non-technical backgrounds for the introduction to Data Science course
- Constructed 15 comprehensive weekly lesson plans, featuring personal office hours for student guidance, TA meetings, and review lectures, enhancing student engagement and understanding
- Prepared students for weekly assessments by creating presentations and offering review sessions to help students better understand the material and boost their grades

Software Engineer

June 2022 - December 2022

Temple Human-Computer Interaction (HCI) Lab

- Participated in a research workshop on CoBoard (collaboration platform) using online whiteboard templates to designed data for computationally supported workshops
- Customized the collaborative digital whiteboard's UI design using past studies feedback to improve productivity
- Developed creativity support tools using React.js and uploading and retrieving design data using Firebase

PROJECTS EXPERIENCE

GitGenius

July 2024 - July 2024

- Integrated LLM and RAG pipelines to automate code review processes, developed question-answers to assist users in understanding the code based on user queries, resulting in significant productivity gains.

SOI (Schedule of Investments) Database

April 2024 - April 2024

- Implemented a database system including ERD, schema, SQL queries, and to efficiently import, process, standardize, BDC investment data from SEC filings, ensuring optimal performance, security.

Global Insights Clustering

March 2024 - March 2024

- Engineered a model using analyze and categorize global insights for actionable data-driven decision-making.

SKILLS

Programming Languages: Python, SQL, Java, JavaScript, C, HTML/CSS, React.js

Tools & Technologies: Git, Pytorch, Tensorflow, Linux/Unix, Data Analysis, Flask, Docker, DSA, AWS, Private cloud, Vector database, ELT, CI/CD, Machine learning, GenAI

LEADERSHIP EXPERIENCE

Bangladeshi Student Association (BSA) | Secretary

Fall 2022 – Present

Temple Data Science Community (TDSC) | Member

Fall 2022 – Present