# **FUAD HASSAN**

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# **EDUCATION**

#### **Temple University**

Bachelor's, **Data Science** Concentration in Computational Analytics

## **PROFESSIONAL EXPERIENCE**

#### **Algorithmic Trading Research Lead**

Temple University

- Lead research on back-testing and performance evaluation of various algorithmic trading strategies •
- Utilize advanced LLMs to automate analysis, enhancing the accuracy and efficiency of strategy evaluation
- Rank strategies based on key financial metrics and identify correlations and patterns between algorithms
- Develop methodologies that integrate machine learning with financial analysis to optimize trading strategies

#### **Cloud Data Engineer Intern**

Comcast

- Managed over 300 weekly cloud-related queries by integrating them into a searchable vector database on AWS
- Improved efficiency by 30% by building a dashboard that tracked common issues and helped teams respond faster
- Enhanced a response RAG model's accuracy by 25% using over 100,000 data points to fine-tune its performance
- Provided data insights to executives, directly influencing a \$200K+ budget decision to improve client support strategies

#### **Finance Data Automation and Analysis**

Temple Finance Department

- Automated scripts in Python to gather financial data from SEC.gov, ensuring accurate and up-to-date information for analysis
- Saved 99% of time in data collection by using web scraping tools to efficiently pull financial data from multiple sources
- Proto-typed and implemented staged Data models for ELT data pipeline for future use and portability Analytics Engineer

#### **IS Technology Intern**

Children's Hospital of Philadelphia

- Resolved over 95% of hardware and software issues within 24 hours, ensuring smooth operations for users
- Provided exceptional service by documenting and resolving items with precision to achieve high satisfaction
- Acted as a key link between clients and the IT team, ensuring effective communication and timely issue escalation

#### **Python Teaching Assistant**

Temple University

- Assisted over 40 students from non-technical backgrounds in understanding data science concepts
- Developed 15 weekly lesson plans and held office hours to support student learning and engagement
- Created presentations and review sessions to help students prepare for assessments and improve their grade

#### **Software Engineer**

#### Temple Human-Computer Interaction (HCI) Lab

- Contributed to research on a collaboration platform, designing data for workshops using online whiteboard template
- 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

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

#### **Global Insights Clustering**

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

# August 2021 - May 2025

May 2024 - August 2024

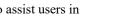
July 2023 - Present

#### August 2022 - December 2022

May 2023 - August 2023

July 2024 - July 2024

June 2022 - December 2022



March 2024 - March 2024

August 2024 - Present

#### SOI (Schedule of Investments) Database

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

### 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 Temple Data Science Community (TDSC) | Member Fall 2022 – Present Fall 2022 – Present