

# FUAD HASSAN

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## EDUCATION

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

**August 2021 - May 2025**

## PROFESSIONAL EXPERIENCE

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### **Algorithmic Trading Research Lead**

**August 2024 - Present**

*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**

**May 2024 - August 2024**

*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**

**July 2023 - Present**

*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**

**May 2023 - August 2023**

*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**

**August 2022 - December 2022**

*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**

**June 2022 - December 2022**

*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

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### **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

### **Global Insights Clustering**

**March 2024 - March 2024**

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

**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

**SKILLS**

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**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**

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Bangladeshi Student Association (BSA) | Secretary  
Temple Data Science Community (TDSC) | Member

Fall 2022 – Present  
Fall 2022 – Present