Zoha Hassan: Professional Portfolio

Welcome to my professional journey through the worlds of computer science, data analytics, and artificial intelligence. This portfolio highlights my academic achievements, industry experience, and technical expertise—showcasing how I leverage AI methodologies to transform complex data into meaningful insights and develop innovative solutions that drive impact across domains.

Education

M.S. Computer Science

Loyola University Chicago

GPA: 4.0/4.0 (May 2025)

Concentration in Artificial

Intelligence

B.S. Mathematics and Computer Science

Loyola University Chicago

GPA: 3.86/4.0 (May 2024)

Interdisciplinary Honors

Scholarships & Awards

Loyola Presidential Scholarship

Rataj Scholarship for Women in Mathematics

Data Analytics Experience

1 — **Elevance Health (May-Aug 2024)**

Engineered complex MDX queries to extract actionable insights from financial datasets, resulting in 15% improved reporting efficiency for stakeholders.

2 — **LLM Implementation**

Leveraged advanced prompt engineering techniques to optimize large language model performance, enhancing customer service chatbots with 30% higher accuracy in response generation.

3 — **Data Structuring**

Transformed raw financial data using Pandas DataFrame operations and custom Python algorithms, creating standardized visualization-ready datasets that reduced analysis time by 40%.

Software Engineering Experience

Publicis Sapient (June-Aug 2023)

Full Stack Development - created web application PoC for marketing employees at Publicis Sapient.

Data Migration

Transferred legacy datasets to Google's Vertex AI platform.

Notification System

Engineered push notifications based on customer preferences.

Research Experience

Robotic Arm Development

Created prototype for recycling sorting using Python on Raspberry Pi.

Image Processing Integration

Implemented algorithms to identify recyclable items on conveyor belt.

Automation Programming

Programmed robot to detect, pick up, and sort items accurately.

Leadership & Mentorship

Girls Who Code

Lead biweekly workshops teaching Python and HTML to empower girls.

Women in Mathematics

Promote mathematics for girls in underrepresented schools.

Tutoring Program

Provide academic support and manage organizational logistics.
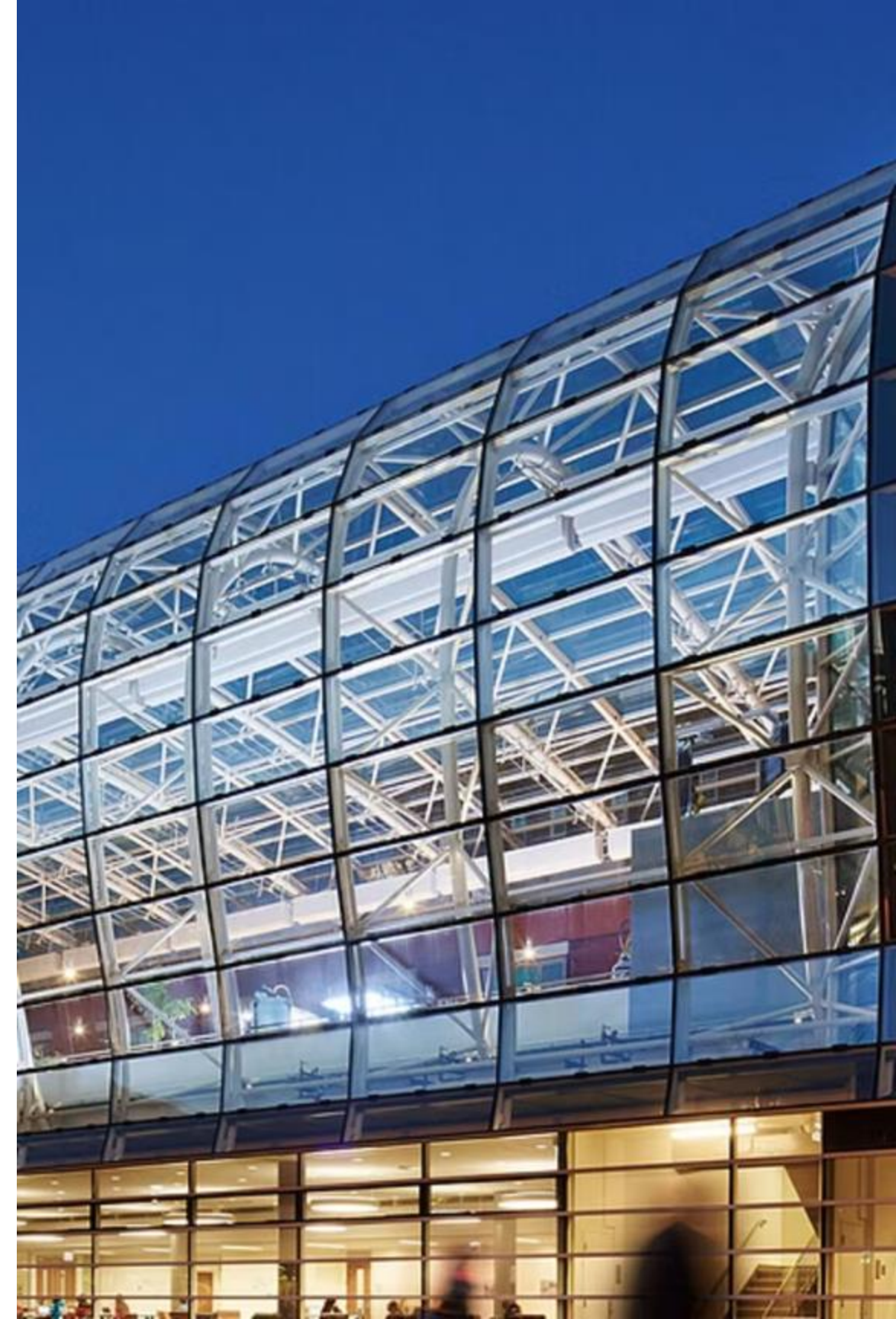
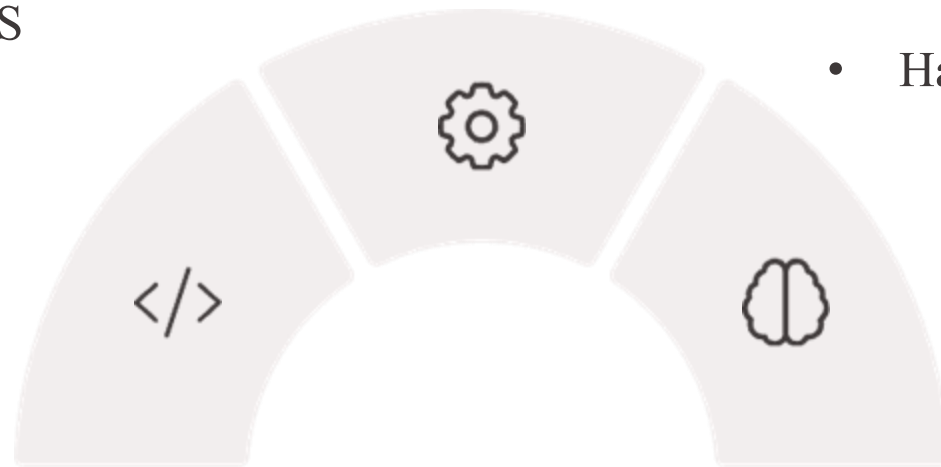# Technical Skills

Programming Languages

- Java
- Python
- SQL
- JavaScript
- HTML/CSS

Tools & Methodologies

- Git
- Jira
- Agile
- Docker
- Keras

Data Science

- Pandas
- NumPy
- TensorFlow
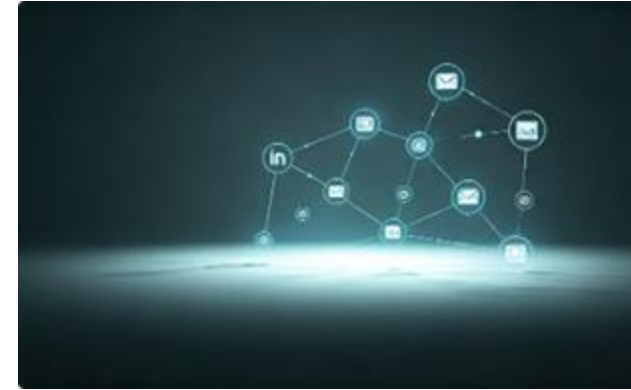- Scikit-learn
- Cloudera
- Hadoop

Let's Connect

Academic Credentials

Dual degrees in Computer Science (BS & MS)

Academic Excellence

Perfect 4.0 GPA in Master's Program

Professional Network

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Based In

Morton Grove, Illinois