

# Matthew Mirza

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linkedin.com/in/matthew-mirza | matthew-mirza-portfolio.netlify.app | Availability: June - August

## Education

**Northeastern University – Khoury College of Computer Sciences (GPA: 3.656/4.00)** **Boston, MA**  
*Candidate for B.S. in Computer Science and Business + M.S. in Computer Science (4+1)* Sep 2023 – May 2027

- **Concentration:** Financial Technology - **Minor:** Computational Data Analytics
- **Related Coursework:** Algorithms (MS), Object-Oriented Design, Database Design, Fundamentals of CS 1 & 2
- **Honors:** Dean's List

## Skills and Certifications

- **Languages:** Java, JavaScript, HTML/CSS, Python, SQL
- **Tools/Frameworks:** Git, React.js, Node.js, Flask, Streamlit, Docker, Power BI, Snowflake, Informatica
- **Certifications:** Microsoft Azure Data Fundamentals DP-900

## Experience

**Dana Farber Cancer Institute** **Boston, MA**  
*Data Information Science Co-op* January 2025 - Present

- Develop, monitor, and log ETL data ingestion pipelines using Snowflake and Informatica.
- Develop and test Python scripts and SQL queries based on requirements requested by stakeholders.

**The Village Bank** **Newton, MA**  
*Personal Banker II / Core Systems Intern (Summer 2023)* July 2021 – Present

- Conduct teller transactions including cash handling, check deposits, withdrawals, and account inquiries with accuracy and attention to detail.
- Led with the project manager to update workflows and procedures related to the integration of third-party software, ensuring alignment with organizational objectives and regulatory requirements.

## Projects

### Husky Hacks (Python, Streamlit, Flask, Docker, SQL)

- Built a web app in Streamlit for students and alumni where they can share programming projects and engage in modules aimed at teaching users languages and frameworks to use in future jobs.
- Developed a REST API using Flask and a relational database using SQL. Containerized the back end, web app, and database using docker.

### Web Chat App (Node.js, React.js, Next.js, Javascript)

- Built a web chat app similar to Omegle with a type-safe user interface and server-side rendering utilizing Next.js.
- Developed the backend with Node.js and JavaScript, using Express to host an HTTP server and enable WebSocket communication for real-time chat functionality, managing user sessions, and maintaining chat logs for data persistence.

### Data Engineering Project (SQL, Microsoft Azure, Power BI)

- Migrated an on-premises SQL database to Azure Data Lake using Azure Data Factory, leveraging automated pipelines for efficient data ingestion, followed by simple data cleansing in Azure Databricks.
- Developed SQL queries in Azure Databricks and visualized the results through a Power BI dashboard.

## Activities

**Oasis Club Mentor** **Sep 2024 – Present**

- Mentor of a selective project-based club. Advised multiple groups of four to five students on a full stack application of their choice.

**ReNU Club (C / C++, Arduino IDE)** **Sep 2024 – Present**

- Contributed to the development of software for controlling key windmill components for a prototype windmill designed for a national collegiate competition hosted by the U.S. Department of Energy in 2025.

## Interests

- Soccer (FC Barcelona), Weightlifting, Cars, Aviation, Travel, Stocks / Trading, Investments, Real Estate, Data Analysis, Data Visualization, Web Development, Machine Learning / AI