

# Miraj Hossain

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## OBJECTIVE

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Energetic Junior majoring in Computer Science seeking an internship that will allow me to apply my technical skills to real-world applications in a collaborative environment

## EDUCATION

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### Rutgers, The State University of New Jersey

*Bachelor of Science, Computer Science*

New Brunswick, NJ

*Sept. 2021 – Dec. 2023*

### Union College

*Associate in Science, Computer Science/Engineering*

Cranford, NJ

*Jan. 2020 – Aug. 2021*

## EXPERIENCE

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### Undergraduate Research Assistant

*Union College*

May 2021 – Aug 2021

*Cranford, NJ*

- Led the electrical team to build a prototype of a life-saving aquatic drone with remote and semi-autonomous capability. The drone could avoid collision using radar and image processing technology and operate through radio communication
- Organized meetings with the mechanical team to get updates on design choices. These meetings helped to coordinate the mechanical and electrical aspects of the drone

### Peer Tutor

*Union College*

Jan. 2021 – July 2021

*Cranford, NJ*

- Provided one-to-one or small group tutoring on Algebra, Pre-calculus I, and Calculus II to improve the student's skills in these subjects
- Performed essential administrative duties when needed. Kept log of student appointment duration and provided to instructors upon request
- Involved and participated in joint meetings of student representatives, instructors, and administrative bodies to improve college offerings for academic success

## PROJECTS

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### MovieDiary | *Python, FastAPI, PostgreSQL*

June 2022 – Present

- Developed a REST API using FastAPI and PostgreSQL to store data from user input and external API call
- Utilized IMDb's REST API to let user search for movies and TV shows
- Implemented mechanism to reduce external API call by storing data on a PostgreSQL database

### BlueQuiz | *Python, Django, JavaScript*

May 2022 – June 2022

- Developed a website using Django and plain JavaScript to let users create and share trivia and quiz
- Utilized Django's built in user model and authentication system for both user and API authentication
- Implemented a REST API for mobile and web application support using Django REST framework

## TECHNICAL SKILLS

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**Languages:** Java, Python, C, SQL (Postgres), JavaScript, HTML/CSS

**Frameworks:** Django, FastAPI, Djanogo REST, Bootstrap, React

**Developer Tools:** Git, PostMan, Google Cloud Platform, VS Code, IntelliJ

**Libraries:** pandas, NumPy, Matplotlib, SQLAlchemy