Shawana Shahrin Rahman

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EDUCATION

Mount Holyoke College South Hadley, MA

Bachelor of Arts in Computer Science and Economics *Expected Dec 2026*

GPA: 4.0

Relevant courses: **Data Structures and Algorithm, Discrete Mathematics,** *Software Design and Development Engineering Robotic System.*

TECHNICAL SKILLS

Languages: Java, Python, C++, HTML/CSS
Software: Git, Eclipse, **ReactJS**, Flask, **Tailwind**, **OpenAI API**, **ML,** VSCode, Pycharm, Google Collab

EXPERIENCE

Mount Holyoke College March 2024 – Present
Computer Science and Mathematics Teaching Assistant *South Hadley, MA*
- Tutoring students in **Data Structures and OOP**, with expertise in both **Java and Python**
- Leading **10** one-on-one tutoring sessions, helping students with coding assignments and concepts weekly
- Instructing **30+ students** in Calculus-2, resulting a **90 percent** class average score

National Commerce and Credit Bank June 2024 – Aug 2024
Software Engineering Intern *Dhaka, Bangladesh*
- Supported IT in building a scalable microservices architecture for banking app using **Docker** & **Kubernetes**.
- Implemented **Tensorflow** to train ML model of the chatbot, improving better responses and users interactions
- Developed **RESTful APIs** with Flask to integrate AI models for handling **100k+** users interaction

NASA Proposal Writing Academy May 2024 – Aug 2024
Research Fellow *Remote*
- Authored a research proposal on integrating AI for real-time **3D mapping** in spacecraft landing
- Implemented advanced algorithms to improve TRN accuracy during descent using NASA's SOA SLAM solutions
- Developed **deep learning models** to enhance hazard avoidance and landing precision in spacecrafts

PROJECTS

Stock Market Analysis | *Python, Jupyter Notebook, Java, Javascript* Aug 2024
- Developed a **LSTM-based ML** model to predict stock prices for multiple companies in a team of 5
- Conducted **sentiment analysis** on financial news to enhance stock price predictions using **Alpha Vantage** API
- Implemented **Node.js** for dynamic, interactive visualizations of stock market trends

Connect Campus | *Python, Flask, React, Firebase, OpenAI, API* April 2024
- Won **Sponsor Challenge Award** at Yale Hackathon; team of 3
- Developed a **React** full-stack webpage to streamline job searches by connecting students with alumni
- Implemented resume screening feature using **OpenAI API**

Pneumonia Prediction Model | *Python, CNN, Tensorflow, Keras* Nov 2022
- Developed a **ML** model to predict pneumonia from facial images in a team of 4
- Implemented decision trees, logistic regression, and **CNN models** to train the model and analyse it's results.
- Integrated the front-end using HTML and back-end using Flask.

LEADERSHIP ACTIVITIES AND AWARDS

Mount Holyoke College Jan 2024 – Present
Peer Career Assistant *South Hadley, MA*
- Communicate and collaborate with **50+** peers, staff, faculty and alums to ensure a seamless communication regarding career services
- Assist career advisors in preparing workshops and events focused on career development, enhancing students' job search and professional skills

Google Developer's Club Jan 2024 – Present
Project Developer *South Hadley, MA*
- Led teams in the design and development of software projects resulting in successful deployments and enhanced team collaboration
- Developed optimal solutions by focusing on incorporating best practices in front-end and back-end development