

BUSHRA YASMIN SHARNALI

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SOFTWARE ENGINEER

A **data-driven** and **customer-centric** software professional with a solid foundation in **Python**, **Flask**, **Django**, **JavaScript**, **React.js**, and **SQL**. Holding a **BS degree** in **Computer Science** from North South University and a **Full Stack** Web Development Certificate from **Flatiron School**, my **customer-first** approach, coupled with strong **team-building** and **leadership** skills, positions me to create collaborative environments and drive successful outcomes. Skilled in both **strategic** and **agile** project management, I am deeply committed to **continuous learning** and **innovation**, which makes me a valuable asset for roles in the ever-evolving fast-paced software technology industry.

TECHNICAL SKILLS

Python with Flask and Django, JavaScript, React.js, Next.js, SQL and Github

TECHNICAL PROJECTS

Harmony - [GitHub](#)

- Developed a web app for couples' finance and chore management, using **Django**.
- Built a **financial tracking system** for personal and joint incomes for clear financial visibility.
- Used **Django's ORM** for efficient **database management** and scalability.
- Designed a user-friendly interface with **React.js**, easy for all users.
- Used **ChatGPT API** to add a financial advisor feature

Stock market analyzer - [GitHub](#)

- Developed a command line Stock Market Analyzer project using **Python**.
- Utilized **Yfinance** to collect historical stock market data.
- Performed data analysis and calculations with **NumPy**.
- Visualized the results with **Matplotlib** for data presentation.

Blockchain based messaging system(currently in progress) - [GitHub](#)

- Developing a **Blockchain**-based messaging system for secure and private communication.
- Implementing **cryptographic** techniques for message **encryption** and user **authentication**.
- Utilizing a **decentralized** network to ensure message integrity and prevent tampering.
- Incorporating smart contracts for automated message delivery and **verification** processes.
- Designing a **user-friendly interface** for ease of use in messaging and managing contacts.

PUBLICATIONS

[Industry 4.0 Applications for Medical/Healthcare Services](#)

Published : 30 June 2021

The paper discusses the transition to the fourth industrial revolution, focusing on the implementation of **IoT**, **Big Data**, **Blockchain**, **Cloud Computing**, and **AI in healthcare**. Analyzes the transformative impact of these technologies in healthcare, offering novel solutions and shaping future medical services

EDUCATION

Flatiron School

Full Stack Web Development **Certificate**, Python with Flask and JavaScript program

New York, New York

05/2023 - 10/2023

North South University

BS [Bachelor of Science] in **Computer Science** and **Engineering**

Dhaka, Bangladesh

01/2016-04/2020

EXPERIENCE

NSU ACM Student Chapter | Dhaka, Bangladesh

Sub-executive | Jan 2018 - Dec 2019

- **Led** a team of **35 members**, enhancing team coordination and event execution.
- **Organized** and **anchored coding competitions** and **tech talks**, fostering a community of learning among peers.
- Coordinated **daily project activities**, streamlining cross-team collaboration and event planning.
- Managed **relationships** with **TV** and **radio channels** for media support, boosting event visibility.

VNSC Science Club | Dhaka, Bangladesh

In-charge | Jan 2014 - Sept 2015

- Provided **tutoring** in fundamental **coding** concepts and facilitated the coordination of **coding competitions**.
- Oversaw the organization of club events, ensuring successful execution and member engagement.
- Translated requirements into high-level designs, improving the club's operational efficiency.

North South University Social Services Club | Dhaka, Bangladesh

Operations team member | Jan 2017 - Feb 2018

- **Key contributor** in planning and executing **social service** initiatives.
- **Coordinated** effectively with team and **stakeholders** using corporate communication skills.
- Organized events to **boost community engagement** and impact.
- Implemented **strategies** to enhance club operations' **efficiency**.