Tasfia Barshat

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Personal Profile

I am an aspiring software engineering undergraduate who integrates aesthetics and functionality to architect remarkable user experience with a passion for innovation and problem-solving. My constant curiosity and determination keep me exploring and developing my skills, always on the lookout for new challenges and opportunities for growth.

Education

Islamic University of Technology (IUT) *Gazipur, Bangladesh*
BSc in Software Engineering *Jan 2020 - Present*
- Current CGPA: 3.66 out of 4.00

Bangladesh International School and College *Dhaka, Bangladesh*
Higher Secondary Certificate *2017 - 2019*
- GPA: 5.00 out of 5.00

Skills

Languages and Frameworks	Python (Pandas, PyTorch, NumPy, Scikit-learn, Matplotlib), Java, C/C++, HTML/CSS, JavaScript, SQL, ReactJS, NodeJS, ExpressJS, MongoDB
Quality Assurance	Jest, SonarQube, Selenium, Jmeter, Postman, Loguru, Pysnooper, Viztracer, Snakeviz
UI/UX	User research, Information Architecture, Wireframing, Prototyping and High Fidelity Mockup
Tools	Latex Overleaf, Figma, Canva, Git, Jira

Work Experience

Grameen Communications *Dhaka, Bangladesh*
Software Engineer Intern *June 2023 - Sept 2023*
- Collaborated on a three-person team effort to develop GC-Bot, a chatbot aimed at enhancing customer support services.
- Collaborated within the UI/UX team to deliver impactful design solutions.
- Developed the Grameen Communications Catalogue website, highlighting featured products.
- Presented team projects to the Board of Directors, including Nobel laureate Dr. Yunus, for review and evaluation.

IUT Al-Fazari Interstellar Society (IUTFIS) *Gazipur, Bangladesh*
Director (ex. Publication Head) *2021 - Present*

IUT Photographic Society (IUTPS) *Gazipur, Bangladesh*
Publication Coordinator *2021 - 2022*

Hult Prize 2022 at Islamic University of Technology *Gazipur, Bangladesh*
Media Coordinator *2022*
- A collaboration between Hult International Business School and United Nations foundation

Projects

Teach Me *Github Link*
A Learning Platform for Children
- A learning platform for children, offering interactive games and activities with progress reports to monitor learning.
- **Technologies:** React.js, Chakra UI, Node.js, Express, Axios, MySQL

Software Metrics *Github Link*
A Comprehensive Analysis of UI/UX Metrics for Banladeshi E-commerce Mobile Applications
- Involves survey design and distribution, webscraping Google Playstore reviews and sentiment analysis using DistilBERT and RoBERTa.
- **Technologies:** Python (Matplotlib, Seaborn, Google Play Scraper), Tensorflow, DistilBERT, RoBERTa

Sign-Us *Github Link*
An online learning platform for Bangla sign language using animated graphics and gesture recognition
- Developed a Bangla sign language learning platform to bridge the gap between the differently abled and us using animated graphics and gesture recognition.
- **Technologies:** ReactJS, NodeJS, ExpressJS, MongoDB, Blender, Tensorflow

Stock Price Predictor *Github Link*
Machine Learning Project
- Used different machine learning models to predict stock prices and evaluated using performance metrics.
- **Technologies:** Python, Models (ARIMA, LSTM and Random Forest Classifier)