

Khandaker Abrar Nadib

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RESEARCH INTERESTS

Social Computing, HCI in Privacy and Security, Network and Systems Security, HCI in design

RESEARCH EXPERIENCE AND PUBLICATIONS

- News Credibility Analysis on Facebook using User Interactions(Thesis)** 2021 - 2022
Supervisors: [Dr. Sadia Sharmin](#) (BUET)
- Developed a method of detecting fake news using interaction data on Facebook.
 - Our goal was to propose a more efficient solution for determining news authenticity compared to existing content-based or NLP-based solutions.
 - Employed Machine Learning methodologies using Python and TensorFlow to classify public Facebook posts based on authenticity.
 - Paper titled- [Interaction Based Credibility Analysis of News on Facebook Using Machine Learning Methodologies](#) published in [SITIS2022](#).

EDUCATION

- Bangladesh University of Engineering and Technology (BUET)** Dhaka
Bachelor of Science in Computer Science and Engineering Feb 2017 – May,2022
- **CGPA: 3.50/4.00**
 - **Major CGPA: 3.68/4.00**

WORK EXPERIENCE

- Software Engineer** May 2022 – Present
[Optimizely](#), Dhaka
- Digital Asset Management* November 2022 – Present
- Technologies: Python, Flask, JavaScript, TypeScript, React.js, MySQL, MongoDB, Alembic, Celery, Elasticsearch
- Asset Renditions* May 2022 – October 2022
- Technologies: Python, FastAPI, MySQL, PostgreSQL, Docker, Kubernetes, Message Queue

PROJECTS

- [Online Art Gallery](#)** | *Library: React.js, Node.js, Express.js, Mongoose, Database MongoDB* 2021
- Designed an e-commerce platform for an Art Gallery.
 - Virtual exhibitions simulated using virtual rooms.
- [AES \(Advanced Encryption Standard\)](#)** | *Language: Python, Libraries: numpy* 2021
- Encryption and Decryption algorithm for 128-bit key size implemented using Python and numpy.
- [Rendering scenes using Ray Tracing](#)** | *Language: C, Libraries: OpenGL* 2022
- An interactive environment designed in C using OpenGL.
 - Lighting for the environment implemented using the Phong Reflection Model
- [Compiler for a Subset of C Language](#)** | *Language: C Libraries: Flex, Bison, 8086* 2020

- Compiler with parser written in C.
- Compiles to 8086 machine code.

Live Cricket Scoreboard | *Libraries: JavaFX, Scenebuilder*

2020

- A headless app that displays live scores in tabular format.
- Basic files used for storage.

Backend of an E-commerce Platform | *Language: PHP, Database: PostgreSQL*

2021

- Designed the backend of a buy-sell platform.
- Showcased complex database queries.

AWARDS AND HONORS

Optimizely SPOT Award for October and July

2023

Nominated by teammates and manager.

- **October**-Awarded for being a team player and positive feedback.
- **July**- Awarded for tackling challenges head-on and inspiring team growth.

TECHNICAL SKILLS

Languages: JavaScript, Python, Java, C/C++, SQL, PL/SQL

Database: MySQL, Oracle, MongoDB, PostgreSQL

Frameworks: Flask, React.js, Node.JS, Typescript, FastAPI, Bootstrap

Tools/Software: Git, TensorFlow, Docker, PyCharm, IntelliJ, CodeBlocks, Visual Studio Code, Oracle SQL Developer, Jupyter Notebook, Wireshark

Libraries: Pandas, NumPy, Keras, Matplotlib, OpenCV, OpenGL

Scripting/Markup/Serialization: Bash, TCL, dLTeX, YAML, HTML, JSON;

VOLUNTEERING AND LEADERSHIP EXPERIENCES

Vice President

December 2021- May 2022

BUET Computer Club

- In charge of organizing and running university events under the club's banner.

Vice President

February 2021- April 2022

BUET Dance Club

- In charge of organizing events and workshops in BUET.

STANDARDIZED TEST SCORES

TOEFL

Speaking: 29, Reading: 29, Listening: 28, Writing: 28

114

GRE

Quant: 162, Verbal: 153, AWA: 4.5

319.5

REFERENCES

Dr. Sadia Sharmin, Associate Professor

Department of CSE, BUET

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