Khandaker Abrar Nadib

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Research Interests

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

Research Experience and Publications

News Credibility Analysis on Facebook using User Interactions 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 to determine news authenticity than 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 conference.

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, dLateX, 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 on campus.

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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