Syed Zami-Ul-Haque Navid

glitchbox29@gmail.com
https://github.com/GlitchBox
https://www.linkedin.com/in/syed-zami-ul-haque-navid-21189a163/

Employment History

March, 2021 — **Software Engineer Level 1,** Enosis Solutions

Education

2016 – 2021 — **B.Sc. in Computer Science and Engineering,** *Bangladesh University of Engineering and Technology*
CGPA: **3.35/4.00**

Skills

Languages	Python, C#, C++, SQL, JavaScript, Java, working knowledge in Dart.
Frameworks and libraries	PyTorch, TensorFlow, Keras, Numpy, Pandas, .NET, Angular, Flutter, NodeJS.
Database	Oracle SQL, MySQL, MongoDB, SQLite.
Version Control	git

Research Interest

- Computer Vision
- Natural Language Processing
- Intelligent Automated Systems

Research Publications

Static Detection of Malicious Code in Programs Using Semantic Techniques: I worked on this research project under the supervision of Dr. Muhammad Masroor Ali. In our research, we identified the malicious nature of source code by expressing the properties through Ontology. Our paper can be found *here*.

Research Works

- **A Study of Covid-Related Fake News in Bengali on Facebook:** I worked on this project under the supervision of Dr. Gias Uddin and Dr. Anindya Iqbal. In our research, we created a benchmark dataset containing Covid related Bengali Facebook posts. We employed Transformer-based models and compared their performances on our dataset. Moreover, we reported our analyses about the prevalence and people's reaction to fake posts. Our paper is under review at CHI 2022.

- **Real-time violence detection from videos:** I worked on this research project under the supervision of Dr. Mohammad Saifur Rahman. Our intention was to detect violence from surveillance videos in real time. We proposed a human-interpretable hierarchical multiple-instance learning architecture for the detection of violent activity.

Research Works (continued)

- **Classification of Warnings Raised by Static Analysis Tools:** I worked on this research project under the supervision of Dr. Anindya Iqbal. We have used handcrafted metrics and information about source code and applied many State-of-the-Art tree classifiers such as XGBoost, LightGBM on them. We have also applied LSTM, Linear Regression, Decision Tree, SVM classifiers. Results from these different models led us to our decision.

- **Neural Style Transfer for Audios:** This is a work in progress. The model takes two audio files as input and tries to create a new audio file by incorporating style from one input and content from the other.

Projects

- **Vasha-Sikkha:** Users can immerse themselves in numerous games and learn the English language. The gaming experience adds fun to the language learning process.

- **Covid Management:** This web application bridges the gap between any person in need of relief and organizations that conduct relief works. The system also helps to centrally manage the workload distribution among these organizations. This is a work in progress.

- **Tour Planner:** This is a database project that makes a tentative itinerary for a tourist, based on his/her budget.

- **TCP Session Hijacking:** A project that launches a session hijacking attack on an ongoing TCP session.

Achievements

- **Asia Dhaka Regional Site Online Preliminary Contest 2017:** Our team ranked 137th.

- **Google Hash Code Online Qualification Round 2020:** Our team ranked 3108th.

- **COVID-19 Idea Contest, IEEE Computer Society BUET Student Branch Chapter:** Winner

- **Google Kick Start Round G 2020:** 3529th place.

References

- **Dr. Muhammad Masroor Ali**
  Professor, Department of Computer Science and Engineering, BUET
  mmasroorali@cse.buet.ac.bd

- **Dr. Anindya Iqbal**
  Professor, Department of Computer Science and Engineering, BUET
  anindya@cse.buet.ac.bd