

Syed Zami-Ul-Haque Navid

Software Engineer Level 1, Enosis Solutions

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Research Interests

- Human Computer Interaction
- Surveillance, Security and Online Privacy
- Automation
- Natural Language Processing
- Computer Vision

Education

Bangladesh University of Engineering and Technology

B.Sc. in Computer Science and Engineering

February 2016 - February 2021

CGPA: 3.35/4.00

Noteworthy Courses: High Performance Database Systems, Operating Systems, Computer Security, Computer Architecture, Simulation and Modeling, Discrete Mathematics, Concrete Mathematics

Undergraduate Thesis Supervisor: [Dr. Muhammad Masroor Ali](#)

Extra-Curricular Courses

- Deep Learning Specialization (Coursera)
- Mathematics for Machine Learning: Linear Algebra (Coursera)
- Web Application Security with OWASP Top 10 (EDUCBA)

Publications

[Syed Zami-Ul-Haque Navid](#), Protik Dey, Shamiul Hasan, Muhammad Masroor Ali. Static Detection of Malicious Code in Programs Using Semantic Techniques. In *2020 11th International Conference on Electrical and Computer Engineering (ICECE)*.

Research Projects

A Study of Covid-Related Fake News in Bengali on Facebook

In our research, we created a benchmark dataset containing Covid related Bengali Facebook posts. We employed Transformer-based models to facilitate the detection of fake news. Moreover, we reported our analyses about the prevalence, topics and people's reactions to fake posts. Our paper is under review at CHI 2022.

Real-time violence detection from videos

Our intention was to detect violent activities from surveillance videos in

real-time. We proposed a human-interpretable, hierarchical multiple-instance learning (MIL) architecture.

Classification of Warnings Raised by Static Analysis Tools

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. I experimented with an LSTM-based encoder-decoder network. Furthermore, I experimented with CNN-based network to emulate the style-transfer works done with images.

Professional Experience

Enosis Solutions

Software Engineer Level 1

March 2021 - Present

Project

A California-based Dentistry Management System. I have worked on both the front-end and back-end. My role is developing features according to the client's specification as well as fixing errors found in the production environment.

Technology

.NET framework, MS SQL Server, SSDT, Angular, SSRS

Selected 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.

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.

Snake Game

This is a microcontroller project built with ATMega32 and accelerometer sensors. A player can interact with the gaming apparatus via motions and gestures.

Other Projects

Naive Phishing App (NodeJS), Pocket Tanks (Simple Shooting Game, built using JavaFX), Covid Management (NodeJS, MongoDB)

Technical Skills

Languages: Python, C#, C++, SQL, JavaScript, Java, working knowledge in Dart and R

Scripting: Bash, HTML, Latex

Machine Learning Frameworks and Libraries: PyTorch, TensorFlow, Keras, Numpy, Pandas, HuggingFace, SimpleTransformers, Scikit-Learn, Gensim,

Development Frameworks: .NET, Angular, Flutter, NodeJS

Ontology Tool: Protege

Version Control: git, SourceTree

Achievements

Asia Dhaka Regional Site Online Preliminary Contest 2017: Our team ranked [137th](#)

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

Google Kick Start Round G 2020: 3529th place

COVID-19 Idea Contest organized by IEEE Computer Society BUET Student Branch Chapter: Winner

Google Foobar Challenge: Currently on level 5

References

Dr. Muhammad Masroor Ali

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Dr. Anindya Iqbal

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