

# Syed Zami-Ul-Haque Navid

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## Research Interests

- Applications of Deep/Machine Learning
- Surveillance and Online Privacy
- Computer Vision, Natural Language Processing
- Human Computer Interaction
- Automation and Robotics

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## Education

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### 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, Fault Tolerant Systems, Microcontrollers and Microprocessors, Discrete Mathematics, Concrete Mathematics

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

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## Professional Experience

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### [Enosis Solutions](#)

*Software Engineer Level 2*

March 2021 - June 2022

### Project

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

### Technology

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

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## Extra-Curricular Courses

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

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## Publications

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[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).

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## Research

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

We created a dataset containing Covid related Bengali Facebook posts and trained Transformer-based models on it. We also reported analyses on the prevalence of fake news and people's reaction. The archived paper can be found [here](#).

### **Real-time violence detection from videos**

We proposed a human-interpretable hierarchical multiple-instance learning (MIIL) architecture to detect violence in surveillance videos.

### **Classification of Warnings Raised by Static Analysis Tools**

We extracted metrics and information about source code. Then we applied several State-of-the-Art tree classifiers (XGBoost, LightGBM etc.) as well as LSTM, Linear Regression, SVM classifiers on them.

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## Selected Projects

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### [Vasha-Sikkha](#)

With this mobile application (Flutter) the users can learn English through engaging gaming experience.

### [Tour Planner](#)

This is a database project that makes a tentative itinerary for a tourist, based on his/her budget.

### [TCP Session Hijacking](#)

A python tool that launches a session hijacking attack on a TCP session.

### [Snake Game](#)

Gesture controlled snake game built with ATmega32 microcontroller and accelerometer sensor.

### [Music Recommender](#)

Given a spotify playlist, this system will recommend songs based on the perceived taste. The system has been built with K-Means algorithm.

### [Conversational AI](#)

This system relies on OpenAI's pre-trained GPT model checkpoint. It has been fine-tuned on Bengali (written in English letters) dataset of dialogues. It's a work in progress.

### [Neural Style Transfer for Audios](#)

The encoder-decoder network 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. It's a work in progress.

## Other Projects

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

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## Technical Skills

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

**Scripting:** Bash, JavaScript

**Markup Languages:** HTML

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

**Development Frameworks:** .NET, Angular, Flutter, NodeJS

**Network Simulator:** Cisco Packet Tracer, Wireshark, NS2

**Electrical Circuit Simulator:** Logisim, Proteus

**Microcontroller Programming:** Atmel Studio

**Ontology Tool:** Protege

**Document Preparation:** LaTeX

**Version Control:** git, SourceTree, GitKraken

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## Achievements

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**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

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## References

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