# MD SHAH IMRAN SHOVON

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**Portfolio**: shah-imran.github.io  **Location**: Dhaka, Bangladesh

## EDUCATION

**B.Sc., Electrical & Electronic Engineering**                                    Graduated 2020
Shahjalal University of Science and Technology, Sylhet, Bangladesh                 3.03/4.00 CGPA
Total Credits:160

## COURSE WORKS

**Signal & Communication:** Basic Communication Engineering, Signal and Linear Systems, Control System I, Optical Fiber Communication, Cellular Mobile and Satellite Communication and related lab courses.
**Mathematics:** Differential and Integral Calculus, Co-ordinate Geometry and Linear Algebra, Vector Analysis and Complex Variables, Ordinary and Partial Differential Equations.
**Computer Science:** Operating System, Introduction to Computer Language, Numerical Analysis, Digital Logic Design, Microprocessor and Interfacing and related lab courses.

## RESEARCH INTEREST

- Generative Adversarial Networks, Neural Architecture Search, Adversarial Machine Learning, Automated Machine Learning
- Robotics, Computer Vision for Robotics, Robotic Process Automation, Swarm Robotics, Affective Computing, Assistive Robotics, Social Robotics

## TEST SCORES

- IELTS – Overall Score 7.0 (Listening-7.5, Reading-7.0, Writing-6.0, Speaking-7.5)

## PROFESSIONAL EXPERIENCE

**HowardMiller, Zeeland, USA: Full Stack Developer(Remote)**                       Oct 2021 – Present

- AI strategy development with Deep Learning for optimizing budget distribution in PPC campaigns (Tensorflow, Keras, Pandas, Scikit-Learn).
- Design and Develop new features, optimize the old ones, and integrate third-party API solutions(Flask, Django, Celery, Redis, Postgres, Linux, Gunicorn, Apache, AWS, Reactjs, API).

**Gmonster.co, Balatonalmádi, Hungary: Project Lead(Remote)**                      Sep 2020 – Present

- Responsible for overseeing the whole development pipeline.
- Designed and Developed the whole product (Mass Email Marketing App) from scratch and the subscription system(Python, PyQt5, Database, Flask, Javascript, Linux Server).

**EnableGeek, Dhaka, Bangladesh: Founder & CEO**                                  Jun 2022 – Present

- Responsible for designing and overseeing the whole operation pipeline.
- Managing the Content Development team and the Tech team.

## RESEARCH & PROJECTS

**Academic Projects**                                                             2014 – 2020
Worked as "Research Assistant" on three different Official Projects funded by UGC (University Grants Commission) and led the last two projects as Team Leader.

- Developing An Autonomous Underwater Vehicle & Navigation System (Arduino, Microcontroller)
- Automatic Attendance Taking with RFID ( Python, Socket Programming, SQL)
- Developing An UGV and a Human Assistant (Python, Raspberry Pi, Socket Programming, Image Processing, Lidar)

**Machine Learning/Artificial Intelligence/Computer Vision Projects**             2017 – Present

- "Analyzing the Consequences of High-Intensity Light and Strategies for Defending Against Adversarial Attacks" writing a Journal on it. (To be submitted as First Author) GitHub
- Custom Object Detection and Tracking using Darknet (Darknet-yolo, Python) GitHub, Youtube
- Dataset Creation for Training Custom Yolo Model (Yolo, Linux Shell Scripting) Drive
- Auto Vehicle Entry Management for Apartment (OCR, Darknet-yolo, Python) GitHub
- Live Speed Detection of Vehicle (Darknet-yolo, Python) GitHub, Youtube
- Classification of Tweets from Twitter (Python, NLTK, Scikit-learn)

**Robotics & Electronics Projects**                                              2014 – 2020
- Line Follower Robot with Automatic Collision Avoidance System
- Maze & Grid Solver Robot
- Remote Controlled Vehicle
- Auto Balancing Bot (Control System Project)
- DX Ball Game With Dot Matrix Display and Arduino (Microprocessor Project)
- Egg Incubator

**Software Projects**                                                         2017 – Present
- Tradeshow Lead Scanning Website
- Personal Trainer Website - Video
- Lead Mining Website
- Smart Class Updates
- **Scraping Application:** Craiglist Scraper, Linkedin Scraper
- **Automation Bot:** Mass Email Marketing App(MVC), Auto SMS Sending Bot, Copy Assister App
- **Desktop Application:** Pi Camera Booth Controller with Python, Workout Generator for GYM - Video

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C++, C, Matlab, Processing, Arduino, JavaScript, Flutter, Dart, Assembly Language (8086)
**Machine Learning:** Scikit-learn, TensorFlow, Keras, PyTorch, YOLO
**Numerical Computation:** NumPy, SciPy
**Data Manipulation:** Pandas
**Data Visualization:** Matplotlib, Seaborn, Bokeh
**Web Scraping and Data Mining:** Selenium, Requests, Beautifulsoup4, Scrapy
**Databases:** SQL, Firebase, MongoDB, Pickle
**Environments:** Anaconda Environment, Jupyter Notebook
**Hybrid Mobile App Development:** Flutter, Dart
**Analysis and Simulation:** Matlab, Orcad PSpice, Power World, Microwind, Proteus Design Suite
**Designing and Graphic:** AutoCAD
**Office Software:** Microsoft Office Suite, Latex, Excel

## TRAINING & EXTRA CURRICULAR ACTIVITIES
- Participated in 12 national Robotics competitions and been in Leader positions for most of them.
- 1st runner-up of Robomania, Esonance at IUT in 2015.
- Top Up IT training on Java conducted by Ernst & Young LLP, India under the LICT project, and the program is certified by George Washington University, USA.
- Completed AWS Cloud Practitioner training course in 2020.
- Taught Physics, Chemistry, and Maths - O Level and A-level students (4 years of teaching experience).
- Organizing member at EEE Fest-2018.
- Participated in cultural ceremonies.

## LINGUISTIC PROFICIENCY
- English (Fluent)
- Bengali (Native language)