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)
- Custom Object Detection and Tracking using Darknet (Darknet-yolo, Python)
- Dataset Creation for Training Custom Yolo Model (Yolo, Linux Shell Scripting)
- Auto Vehicle Entry Management for Apartment (OCR, Darknet-yolo, Python)
- Live Speed Detection of Vehicle (Darknet-yolo, Python)
- 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
- DX Ball Game With Dot Matrix Display and Arduino
- Egg Incubator

Software Projects   2017 – Present
- Lots of scraping Desktop Applications such as Craigslist Scraper, and Linkedin Scraper.
- Automation Bot Desktop Applications.
- Tradeshow Lead Scanning Website
- Personal Trainer Website
- Lead Mining Website & Lead Printing Application
- Bulk Email Sender & Auto Email Responder
- Smart Class Updates

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)
- Hindi (Moderate)