Nasif Zaman

Contact Information

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Research Interests

To leverage 3D Computer Vision and Multimodal Learning to streamline 3D interactive content creation.

Education

Bangladesh University of Engineering and Technology, Dhaka 1205, Bangladesh

B.Sc., Computer Science and Engineering

CGPA: 3.31/4.0

- Dissertation Topic: "Mouza Map Digitization"
- Advisor: Prof. Dr. Monirul Islam

Honors and Awards

Board Scholarship in Secondary School Certificate Examination, 2011

Research Experience

Bangladesh University of Engineering and Technology, Dhaka, Bangladesh

Research Assistant **January, 2019 - present**

Maple: Robust Map Segmentation Using Mask-RCNN

Papers in preparation

Nasif Zaman and Md. Monirul Islam. Spatial feature extraction from distorted Mouza maps.

Nasif Zaman and Md. Monirul Islam. Maple: Robust Map Segmentation Using Mask-RCNN.

Professional Experience

Elab.ai : Health Tech Startup, Dhaka, Bangladesh

Machine Learning and Big Data Engineer **May, 2018 - December, 2018**

Processing and analyzing imaging data, extracting text from medical reports, training neural network for tentative diagnosis migrating infrastructure to Google Cloud Platform and creating a functional REST API.

Computer Skills

- **Computer Vision**: OpenCV, Tensorflow, Keras, PyTorch, Caffe, scikit-learn, Unity3D
- **Languages**: Python, Java, MATLAB, C/C++ (including AVR, Arduino), C#, HTML/CSS, LaTeX.
- **GIS and Cartography**: ArcGIS, ArcScene
- **Others**: Google Cloud Computing

Relevant Coursework

- **Computer Science**: Artificial Intelligence, Computational Geometry, Linear Algebra, Digital Image Processing, Computer Graphics
- **Online Coursework**: Neural Networks and Deep Learning, Probabilistic Graphical Models, Multi-view Geometry, Machine Vision, Introduction to XR, Game Theory, Fundamentals of GIS

Projects	• **Python**: Bangla Numeral Detection and Recognition in Scanned Mouza Maps with MaskRCNN and OCR. • **Python**: Reddit bot for Map Recognition in map related subreddits. • **Django**: Plot Information Management System • **Java and Oracle**: Train Ticket Reservation System. • **Java**: Multi Tab Web Browser • **C**: 2D Racing Car
Hardware Projects	• **Arduino Uno and IR-Sensor**: Grid Solving Robot • **ATmega32 and LED Matrix**: 2-Player Ludo Game (Variants: Multiplayer and Player vs AI)
Activities and Interests	• **Sport**: Swimming, Cycling • **Other**: Map making, Web crawling, Casual reading, Eating