Pranesh Shrestha

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https://github.com/shresthapranesh

Computer Engineering junior with strong theoretical background in programming and statistics, is looking forward to advance career in Software Development and Machine Learning.

TECHNICAL SKILLS

Programming: Python, Java, C++, C, JavaScript, HTML, CSS, PHP, MATLAB, Verilog
Relevant Skills: TensorFlow, Node.js, AWS Sagemaker, Git, Express, MongoDB, SQL, Flask, SCRUM, LTSpice, FPGA

EDUCATION

BS in **Computer Engineering |** Mathematics and Computer Science — Est. Graduation: May 2021
Texas Tech University — GPA: **3.65/4.0**
Related coursework: Data Structures, Machine Learning, Software Engineering, Object Oriented Programming, Micro-controllers, Modern Digital System, Linear System Analysis, Project Lab I, II

PROJECT EXPERIENCE

Music Genre Predictor **(**Project Member**),** Lubbock, TX — January 2020 **–** ongoing

- Analyzed Mel Spectrogram using FFT and Seaborn for Data Visualization and feature extraction.
- Researched on ML algorithms, loss functions and optimization techniques for designing Neural Network.
- Trained and Evaluated Neural Network Classifier by adjusting parameter and training data selection.
- Researched Cloud deployment for real-world application of Neural Network endpoint in AWS SageMaker.

Point of Sale System (Project Member), Lubbock, TX — January 2020 **–** ongoing

- Practiced object-oriented architectural software design with various Use-Case Diagram and Agile development methodologies.
- Promoted use of Modular programming design for easy software debugging and integration.
- Implemented MongoDB Database for Data Storage and user interface using JavaFX.
- Released the program in different phase for validation and user feedback.

Phasor Measurement Unit (Project Member), Lubbock, TX — August 2019 **–** December 2019

- Designed and analyzed a system for detecting anomaly is AC powerline for effortless diagnostic by pinpointing the fault location.
- Programmed a micro-controller for high speed signal sampling with Low Signal to Noise ratio.
- Resolved issues related to high speed sampling, low latency Data transmission through USB and collaborated in coding and debugging for cloud Integration with MySQL.

Autonomous Mail Delivery Rover (Project Leader), Lubbock, TX — January 2019 **–** May 2019

- Spearheaded designing and building autonomous rover to deliver mail at designated location.
- Enhanced multi-threaded task handler with state-machine build on Verilog.
- Built and diagnosed amplifier and current limiting circuit based on operational Amplifier.

Chess Game (Personal Project), Lubbock, TX — November 2018 – December 2019

- Implemented abstract data structures and sorting algorithms for finding all possible moves.
- Programmed and debugged minimax algorithm for calculating next best possible move to checkmate.

ADDITIONAL

Involvement

- Google Developer Student Club (Member)
- Virtual GEAR Competition (Grader)
- Nepalese Student Association TTU (Member)

Honor and Awards

- Top 25 Presidential Scholarship (TTU)
- Tensorflow 2 and Keras for Deep Learning (Udemy)