KHANDAKAR AMIR HOSSAIN

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WORK EXPERIENCE (2 years 2 months)

IoT Software Engineer:

Nybbles Systems Limited (NybSys Pvt. Ltd.)

- 1st Aug 2020 Present (1 year 9 months)
- Working with IoT team in developing clean code for embadded linux
- R&D on performance improvement for different IoT Gateway products
- · Learning sensor data hervesting and protocol mechanisms

IoT Intern:

Nybbles Systems Limited (NybSys Pvt. Ltd.)

- 1st March 2020 31st July 2020 (5 months)
- Worked with the IoT team in implementing & testing new features
- Upgraded existing firmware with some really cool features
- Developed automation tools and GUI to enhance productivity for some bowring repetitive tasks.

LEARNING & CERTIFICATIONS

- Python for Data Science and AI: View An online course organized by **IBM** and offered through **coursera**.
- Mathematics for Machine Learning: View An online specialization (3 courses) organized by Imperial College **London** and offered through **coursera**.
 - 1. Linear Algebra. View
 - 2. Multivariate Calculus. View
 - 3. Principle Component Analysis(PCA). View
- IBM AI Engineering: View An online non-creadit professional training (6 courses) organized by IBM and offered through coursera.
 - 1. Machine Learning with Python. View
 - 2. Scalable Machine Learning on Big Data using Apache Spark. View
 - 3. Introduction to Deep Learning & Neural Network with Keras. View
 - 4. Deep Neural Networks with PyTorch. View
 - 5. Building Deep Learning Models with TensorFlow. View
 - 6. Al Capstone Project with Deep Learning. View

HANDSON TECHNOLOGIES

Development Boards: Jetson Tx2/Nano, Raspberry Pi 2/3/4, STM32MP157C, OpenMV, Esp32, Esp-8266, Arduino Uno **Arduino Mega 2560,** STM32F103C8T6

Software Tools & IDE: Eagle, Proteous, EasyEda, Circuit Maker, Keil, STM32CubelDE, VS Code, Spyder, Arduino IDE,

FrameWorks: FreeRTOS

REMARKABLE PROJECTS

- NybSys LMR Gateway (NS_LMRG100) View IWCE Expo 2021 Designed, Developed, Tested & Deployed NS LMRG100. View Demo 2
- NybSys Smart Poultry Farm Automation. View Developed, tested & Deployed NSPF100 gateway & sensor nodes
- NybSys Water ATM (B2B for Drink Well) View Upgraded the existing firmware to Version 3.1 & added new features
- NybSys IoT Gateway (IG100) View

Upgraded the existing firmware to Version 2.1 & added new features

- NybSys Sentra Dispatch to Multicast Gateway (BackEnd Tool) Developed & Tested the tool that will run in the backend for scalability.
- · Weapon (Gun) Detection and Elimination For jewelry Shops and Bank Security :(Using ML & IoT) View Bank Loan approval decision prediction (data model): view
- [N.B: Dataset was taken from kaggle and assigned to us by my

EDUCATION

B.Sc(Hons) in ICT

Islamic University, Bangladesh.

2016 - 2020

CGPA: 3.31/4.00

Higher Secondary School Certificate

Dinajpur Government College

2013 - 2015 GPA: 4.83/5.00

Secondary School Certificate Maharaja Girijanath High School

2011 - 2013

GPA: 5.00/5.00

PROGRAMMING SKILLS

Languages: Python3, Node JS, React ,C,C++ **Embedded C**, Java, Bash-Linux Shell Scripting. Machine Learning: Numpy, Pandas, PyTorch

Tensorflow, Scikit-Learn, SciPy, matplotlib OpenCV, Apache Spark, Keras.

Network Programming: socket, MQTT, RTP Web FrameWork: Diango

Scalbility&Deployment: **Docker**, **Gunicorn** Database: MySQL, PostgreSQL, SQLite3 ML Algorithms: Statistical Modeling, **SVM**,

Neural Networks, Classification, Clustering Generative Adversarial Networks(GAN).

SOFTWARE SKILLS

- · Class, ER & Sequence Diagram generation.
- · S O L I D design patterns in practice.
- Object Oriented Programming.
- · Clean & Standard Coding Practices.
- Multi Processing/ Threading.
- · Event Handling.
- · Inter Process Communication.
- · Repetitive Task Automation.
- **Dead Lock Prevention Precautions.**
- · Distributed Version Control with Git.

PASSIONATE ABOUT

I want to build my carrier as an Al Engineer. Currently I'm learning several Machine Learning algorithms from online and applying them to several data-sets. It will be Interesting for me to work wth people and/or company that concentrates on Artificial Intelligence or Big Data, Data Science. More specifically Data Mining, Deep Learning, Machine Learning and/or Computer Vision

REFERENCES

Moshtaq Ahmed

- CEO at NybSys
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Supervisor Dr. Bikash Chandra Singh.]