MEGHANA JAYASWAMY

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Graduate student at Stony Brook University with an interest in Web development, Android App development & Machine learning.

Actively looking for Software Development full time opportunities starting January'2021.

EDUCATION

Stony Brook University — ***Stony Brook, New York, USA***
MS – Electrical & Computer Engineering | CGPA - 3.71/4 — ***Graduating: Dec 2020***
Relevant Coursework: Computational model for Computer Engineers (Data Structures), Introduction to Computation and Data Science, Cyber Physical Systems, Mobile Cloud Computing, Mobile Sensing Systems.

SJB Institute of Technology | CGPA - 9.3/10 (Rank #1) — ***Karnataka, INDIA***
BE – Electronics and Communication Engineering — ***August 2015 - June 2019***
Relevant Coursework: Operating systems, Python Application programming, Object oriented programming with C++, Programming in C and Data Structures, Wireless & Mobile Communication.

TECHNICAL SKILLS

Languages:	Java, Python, C, C++, Embedded C, React.js, HTML/CSS, MySQL
Application Software:	Android Studio, GIT, Eclipse, Jupyter, VS Code, Xilinx, Raspberry Pi, LABVIEW
ML Toolkits:	NumPy, Pandas, Keras, SciPy, Scikit-learn
Courses & Certifications:	Programming Foundations: Databases, Learning React.js

EXPERIENCE

Stony Brook University Graduate School | Graduate Teaching Assistant — ***Jan'2020-May'2020***

- Worked under Prof. Murali Subbarao as a Teaching Assistant for the undergrad course – ESE 344 Software Techniques for Engineers *(Data Structures and Algorithms in C++).*
- Mentored 6 students for their projects, graded assignments, projects and tests for 40 students and prepared lecture handouts that helped professor in teaching.

Tequed Labs | Student Intern — ***June'2019-July'2019***

- Completed internship on Full stack web development.
- Designed a chat application using Node.js and Socket.io module which works on any platform, browser or device.

PROJECTS

Smart Location-based Attendance Register Android App — ***March'2020-May'2020***

- (*Java, xml, HTML/CSS, Google Cloud, FireBase*)
  Android application implemented using QR code generation which is scanned by the students to mark their presence in the class, thereby reducing the need of additional biometric scanner devices.
- The location of a classroom has specific geo-coordinates and each student's location can be determined by the GPS using a smartphone.

Machine Learning model for Chess Data Analysis — ***April'2020-May'2020***
(*python, jupyter notebook, numpy, scikit learn****)***

- Implemented a model that will predict the Elo score of a chess p layer. Additionally, it performs the task of guessing the type of game depending on the time of the game and performing classification and regression based on the Elo score.

Detection of Malaria using Deep Learning — ***Oct'2019-Dec'2019***
(*keras, ResNet, python****)***

- Implemented a model that detects the malarial disease using the blood smears of the samples quickly using Deep Learning. the models are pre-trained and then this model is used to detect the presence of malaria in the test data, with a better accuracy of around 97% and speed.

IoT Based Baggage Tracking System for Airport (Android App) — ***Nov'2019-Dec'2019***
(*C++, Thingspeak, Android, FireBase, IoT****)***

- Project aims to track the baggage in the airports using RFID reader module and programmed ESP8266 NodeMCU module using C++ which involves thingspeak IoT platform to send sensor data privately to the cloud and the information is retrieved by the user side, also built an android application using MIT App Inventor platform

EXTRA CURRICULAR ACTIVITIES

- Cleared Restricted Grade Examination for Amateur License conducted by Indian Institute of HAM (IIH), Ministry of Communication, India.
- Participated in the International Day of Light organized by Indian Space Research Organization (ISRO) on 16th May'2018.