Soumil Nitin Shah

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Summary

Excellent experience of building scalable and high-performance Software Applications combining distinctive skill sets in Internet of Things (IoT), Machine Learning and Full Stack Web Development in Python.

Education

University of Bridgeport

- **Dual Master of Science (MS) Electrical & Computer Engineering,** GPA: 3.81/4 **August 2017- May 2020**

University of Mumbai

- **Bachelor in Electronic Engineering,** CGPA: 7/10 **May 2013-May 2017**

Work Experience

Software Developer Intern **Budderfly, Shelton, CT** **Aug 2019 - Dec 2019**

Accomplishments:

- Enhanced system architecture performance by 10% via implementing object-oriented design patterns, robust test patterns
- Successfully enhanced the database, integrated it to unit testing module that led to an enhanced architecture
- Developed a Lambda Function which reduced the cost of executing IOT applications and provided seamless functionality resulting in an improved CI/CD pipeline in AWS environment.
- Developed a Web (REST API) Service which automatically populated data to the company's database, this led to a superior UI experience for the sales team which eliminated manual tasks resulting in enhanced productivity
- Successfully deployed a smart application (Dashboard) which enhanced system throughput by 8%. It minimized discrepancies in average electricity rates generation between the customers and employees.

Instructor, Google CSI Summer Intern **University of Bridgeport, Bridgeport, CT** **Jul 2019 - Aug 2019**

Accomplishments:

- Trained 50+ students to build websites by implementing HTML, CSS, JavaScript, Bootstrap, and Python.

Research Assistant, NASA Connecticut (CT) Space Grant **University of Bridgeport, Bridgeport, CT** **Jun 2018 - Jan 2019**

Publication Accomplishments:

- "Balluino: High Altitude Balloon/Drone Based Air Pollution and PM 2.5 Monitoring System", 2019 IEEE Long Island Systems, Applications and Technology Conference (LISAT), Farmingdale, NY, May 3rd

Major Projects

- Developed and published a Python application (web crawler) that generates US weather report based on zip code. This created a successful dataset repository for Machine Learning applications with more than 328 downloads.
- Developed and published Python application (web crawler) that populates Images based on Query This create a Dataset for Convolution Neural Networks.
- Developed and published Python-based Random Proxy. Proxy helps the client to hide their Ip address and can bypass blocked websites.
- Worked on 10 Years of hourly energy consumption dataset analyzed using pandas and did data visualization using seaborn and matplotlib and created an RNN Model to predict values of energy consumption in the future.
- Created a machine learning model to predict how likely a patient will have diabetes in the future with an accuracy of 80 %
- Developed a python script that helps network administrator to identify all the Host that is connected to the network with corresponding Open Ports and Mac Address and saves the result in a csv file.

Content Creator (YouTube):

- Successfully building content in YouTube on Machine Learning, Python (Full Stack Web Development, Data Science & Visualization) and personal life lessons. I have a robust 3000 subscribers and more than 600 videos.