Soumil Nitin Shah

Python Developer

With Experience in Python; focused on using cutting-edge technologies to solve challenging problems: I turn ideas into projects, and projects into serial success. I Develop Python Based Cross Platform Desktop Application, Webpages , Software, REST API, Database

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https://www.linkedin.com/in/shah-soumil

https://github.com/soumilshah1995

https://www.youtube.com/channel/UC_eOodxvwS_H7x2uLQa-svw

Blog

EDUCATION

Master of Science Electrical engineering
Master of Science Computer Engineering

University of Bridgeport

Bachelor in Electronic Engineering

University of Mumbai *01/2014 – 11/2016*

WORK EXPERIENCE

Security Analyst Intern

Outsecure Inc

Shelton Connecticut

- Assist with vulnerability assessments and penetration testing for specific applications, services, networks and servers as required.
- Developed Python Shell Scripts for company that Automatically generates Report of all connected Device with their IP and Mac Address and open Ports. The Shell script can also find all vulnerable Devices such as Chrome cast and can execute Payload remotely.

Research & Teaching Assistant.

University of Bridgeport

Bridgeport June 2018- January 2019

- Developed a Proof of Concept of SMART Mirror (System Demo) using Raspberry Pi.
- Developed a device – 'Airsense' (System Demo) that maps pollutions and sends data to cloud server for further analysis
- Helped Dr.Abdel Shakour to conduct Labs and lecture for subject Internet-of-Things
- Developed new paradigm of monitoring student attendance using RFID based on the Internet of Thing (IoT) (System Demo)

Independent Researcher

Bridgeport June 2018- January 2019

University of Bridgeport

- Worked for a **NASA CT Space Grant Project** *'Balluino: High Altitude IOT Based Real Time Air Quality Management System Using Balloon/Drone' (System Demo)*

Embedded Hardware Developer Intern

Software Development Cell

India

- Developed a low-cost device that measures the pH level of soil in just 10% of the cost compared to Market Price.
- Developed an Embedded system that automated the existing light control using GSM, thereby reducing the human effort for rural areas.
- Designed a timer that can trigger switch control for Media preparation room Autoclave Controller in Tissue.

Projects

TensorFlow Projects

1. Machine Learning Model for Diabetes Prediction [Link]
2. Machine Learning Model on Wine Dataset [Link]
3. Machine Learning on Chest X-ray to Detect Pneumonia[Link]
4. Machine Learning for Housing Price Predictor [Link]
5. Machine learning model on IRIS Dataset [Link]

Library Developed in Python for Developers

1. This is smart library developed in python. The Library allows Developers to upload and retrieve data from cloud like Thingspeak, allows custom notification using SMS and Email using IFTTT [Link]
2. Python based Random Proxy [Link]

Python based Audio Book

1. Python based Audio book allows user to convert their Favorite Story book into a MP3 File. It allows conversion of text to MP3 File as well. Supports Language English and French.
2. This project we used Rest API and Text to speech Conversion and front end was developed in PyQt5 and Mongo DB was used as Database

Python Based Library Room Reservation system

1. This project was developed in Python using Twilio Phone call API. Over the Phone call user can check Booking, Reserve Room, Get notified about activity going on campus and automated Form Filling.[Link]

Python Certification

1. The Complete Python 3 Course: Go from Beginner to Advanced!
2. The Complete SQL Bootcamp
3. Python and Flask Bootcamp: Create Websites using Flask!
4. Learn Python Programming Masterclass
5. Introduction to Databases and SQL Querying
6. Deep Learning: An Introduction
7. C# Basics for Beginners: Learn C# Fundamentals by Coding

Publication

1. Teaching Internet-of-Things Using E-Learning Laboratory [Link]
2. Balluino: High Altitude Balloon-based Arduino Real Time Air Quality Monitoring System [Link]
3. IoT Based Smart Attendance System (SAS) Using RFID [Link]
4. Simulation of PM2.5 Particulate Matter Pollution in US East Coast Using SMAT-CE Software [Link]

Python Skills

Python Web Framework: HTML, CSS, JavaScript, jQuery, Bootstrap, Flask.
Python GUI Framework: Tkinter, PyQT5, Kivy, Electron JS (Eel).
Python Database Framework: Sqlite3, MySQL, SQL, Mongo DB
Python Data Science Framework: Pandas, Matplotlib, Seaborn
Python Web Scrapping Framework: Beautiful Soup, Selenium
Languages: C, C++, Embedded C, Verilog, C#

Honors

1. Best Academic Achievement Award [Link]
2. 3rd Prize at Hackathon Competition [Link]
3. Academic Awards 5000 USD