

RESUME

PARTHIBAN SOUNDARAM

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Career Objective:

I would like to utilize my skills effectively in the company that I work for and acquire knowledge and experience with the benefit of the company and my career.

Career Summary:

- Having 3+ years of experience in developing web applications using technologies such as **Python, Django, Flask, REST API, Python Scripts, Chat bot.**
- Having experience in cloud technologies such as **AWS** and **GCP.**

Professional Experience:

Company: DIMA Business Solutions, Coimbatore, India

Designation: Software Engineer – **November 2019 to Current**

Works, Roles and Responsibilities:

- Working in Automation based Network Security Software programmer.
- Network Security and IT infrastructure Automation.
- Developed web applications and REST-API using **Python, Django, Flask, HTML, CSS.**
- **AI Chatbot** and **WhatsAapp Chatbot** integration using Python.
- Web Server Configuration with Nginx.

Company: Veradis Technologies, Coimbatore, India

Designation: Software Developer (Web Development) - **August 2017 till November 2019**

Works, Roles and Responsibilities:

- Requirement analysis, design and software tools analysis.
- Algorithms implementations using **Python, Numpy, Pandas, scipy, sklearn.**
- Familiar with **AWS** and its services such as **S3 & lambda**, etc.
- Developed web applications using **Python, Django, MPLD3, Matplotlib, C3.js, HTML, CSS.**
- Developed **Web Services** using python **REST API.**

Projects:

1. DIMA Warrior Internet Security (DNS) and Proxy:

The purpose of this project was developing the Internet Security for Home/Individual, Small startups and Educational Institutions. Platform which we used for this project was **Python, Shell script, Bind9, Squid proxy server, Twilio, WhatsApp, Flask, Django** and the web servers like **ngrok, Nginx**.

The tasks involved during the development,

- Automating tasks to extract the data using **Selenium, BeautifulSoup and Scrapy**.
- Creating the automation tasks for monitoring the product status and updates using Python and Crontab..
- Creating the web applications using Python, Django, Flask.
- Creating the WhatsApp Chatbot and Website AI Chatbot using Python, Flask, Twilio.

2. DIMA Malware/Phishing and Webpage content categorization:

The purpose of this project is developing the API to predict Malware/Phishing and web page content category. By predicting this, client can block internet access as per their organizations rules.

The tasks involved during the development,

- Creating models with the help of Natural Language Processing and text multi classification to predict web page content category. Scrapping web page data to create data sets for more than 30+ categories like porn,violence,alcohol, social media, etc.,
- Creating algorithm with 25+ rules to detect Malware/Phishing web content with the help of data science techniques some algorithms are like – Domain Info, Web Content, Page Rank, etc.,
- Creating API with the help of Flask.

3. DIMA Warrior Dashboard:

The purpose of this project is developing the dashboard to monitor and analyze the behavior of DNS reports of client's networking data. The platform which we used for this project was Python,Django.

The tasks involved during the development,

- Creating Django web application.
- Designing the database tables.
- Designing the front-end template using HTML, CSS, JS and JQuery .
- Collecting data from client's DNS Firewall using **rsync** automation.
- Converting and rendering the data into dashboard.
- **Skills used:** Python, Django, c3.js, moment.js, pandas, Postgresql, Nginx-Server.

4. Internet of Things (IOT):

The purpose of this project is developing the dashboard to monitor and analyze the behavior of pressure and temperature monitoring sensors. The platform which we used for this project was Python, AWS (S3, Lambda, IOT core, SQS, CloudWatch, Ec2) and devices such as (Raspberry Pi, BME280 and OneWire sensors).

The tasks involved during the development,

- Creating thing in AWS core .
- Design Shadows to monitoring and control the device.
- Writing a Python script to automate routine tasks like storing the sensor values in AWS S3, update client devices via remote job using AWS, MQTT protocol.
- Design the scheduling task using AWS Lambda.
- Processing the data which is stored in AWS S3 and creating visualization using Python, Django.
- Automating tasks to perform ETL (weather data) .
- Libraries used in project was sklearn, scipy, pandas and numpy.

Technical Skills:

Programming Languages: Python, Java

Databases: SQLite, Postgresql, MongoDB

Web Development: Django, Flask, JavaScript, JQuery, HTML, CSS

Web Server: Nginx, ngrok

Operating Systems: Windows, Linux (Ubuntu, Centos, Mint)

Cloud Platform: AWS & GCP

Version control tools: SVN, Bitbucket

Education:

- Master of Computer Applications from Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India. (Year of passing 2015)
- Bachelor of Computer Science from KG college of Arts and Science, Coimbatore, Tamil Nadu, India. (Year of passing 2012)

Ref:

- LinkedIn <https://www.linkedin.com/in/parthiban1230>
- Stackoverflow <https://stackoverflow.com/users/8912663/parthiban-soundram>
- Portfolio <https://parthibansoundram.github.io>