

RESUME

SATHEESH V

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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.

Professional Experience:

Company: DIMA Business Solutions, Coimbatore, India.

Designation: Software Engineer

Experience:

- **September 2020 to Current**
- Experience in web applications and REST-API using **Python, Django, Flask, HTML**.
- Automation experience on server and network.
- Experience in end to end product development .
- Experience in databases (Sqlite , PostgreSQL) .
- Experience in NOSQL databases (MongoDB).
- Experience in Linux and Linux commands.

Projects:

1. DIMA Emperor (Malware/Phishing):

The purpose of this project is to develop the API to serve responses for various DIMA Products like Firewall, DNS, Browser Extensions, Antivirus Software, Proxy, etc.

By predicting this, clients can block internet access as per their organization's 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. Scraping web page data to create data sets for more than 40+ 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.,
- Collecting malicious MD5 & sha256 hashes from Open Sources and Trusted partners of DIMA and serving those results to DIMA Antivirus Software.
- Creating API with the help of Flask.

2. Webpage content categorization:

The purpose of this project is to create a machine learning modal to predict the webpage category by using text that present in the webpages. It have 30+ category (education , alcohol , porn , politics , News ...) .

The tasks involved during the development,

- Scrape the text data for the each category. It have 40+ text files for each category to store text data. Split the dataset for training and testing (70:30).
- Pre-processing the collected data (handling the missing values , encoding the categorical data , standardization , Dimensionality reduction).
- Select the appropriate ML modal for training data by using the ML algorithm (SVM, Logical Regression , Random Forest) . After selecting the modal by using highest accuracy save it using pickle module for future predicting.

3. Security Agent Using Python:

The purpose of this project is to monitor users on windows system using python software.

It collects data from user system and send the collected data to server on daily basis.

The tasks involved during the development,

- Running client application to collect following data from user system,
 - 1) Browsing history [Chrome , Firefox , Brave , Edge , Chromium , Opera]
 - 2) Get all installed Software from the user system.
 - 3) Keystroke logging using python module.
 - 4) System hardware information [RAM ,CPU , HARD DISK ,GRAPHICS CARD]
 - 5) System Software information [BOOT TIME , IP , NETWORK INTERFACE CARDS , STATISTICS OF CPU AND RAM]
 - 6) Disable private browsing [INCOGNITO MODE] on following browsers.
Chrome , Firefox , Brave , Edge.

- Upload all data to server on daily basis. Server store all data to MongoDB Database.
- Admin can view and analysis the user data by date wise using Django web Applications.

Employment: Self - Employed

Designation: Python Developer

Experience:

- **September 2019 to Aug 2020**
- Worked as a freelance python developer on freelancing platform,
- Worked on python web scraping projects using beautifulsoup and selenium.
- Worked on data handling and cleaning using python pandas.
- Working concepts of web application, REST API, HTML, CSS, JSON, XPath etc.

Technical Skills:

Programming Languages: Python ,Bash

Databases: SQLite, PostgreSQL, MongoDB

Web Development: Django , Flask, HTML, CSS .

Operating Systems: Windows, Linux

Version control tools: Git

Experience in Linux and Linux commands.

Experience in python selenium , regex , pandas .

Experience in Automation using Python and bash script.

Knowledge and good understanding in networking concepts.

Practical experience in AWS (EC2 , S3 , API Gateway , Lambda , database).

Education:

- Bachelor of Mechanical Engineering From Velalar College of Engineering and Technology, Erode, Tamil Nadu, India.

Ref:

- LinkedIn -- <https://www.linkedin.com/in/satheesh-7777>
- Portfolio -- <https://satheeshcharon.github.io/satheesh/>
- GitHub -- <https://github.com/Satheeshcharon>