

# RAMANATHAN D

## SENIOR SOFTWARE ENGINEER

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Tuticorin, Tamilnadu

## EXPERIENCE

12/2022 - 10/2023

Remote, Tamilnadu

### Senior Software Developer

#### Distinct Infotech Solutions

- PROJECT 5 : Smartconnect and FusionZee project (Django and Flask and java Cryptographic techniques) [2022-2023]
  - Developed the Django rest framework application for money exchange purpose worked as a backend side as banking api's and connected with the middleware application.
  - And we are doing encryption and hashing like SHA-256 and Base 64 and also checking whether the certificates is working fine or expired. And then connect the middleware application to the front end application through json or XML format mapped to the parameter and then connected with the DLL to connect front end application
- After we deploy the middleware application in the client instance and then we create the docker image, for this we have use the GCP cloud storage.
- An Online configuration API template project. It based on python django tools, resolved technical issues debug, developed and implements technical logics.
- I deployed project on client server and resolved server issue as certificate creation and update, and create server log etc.
- And the store datas in database, for offline methods we use SQLite3 and other datas are in PostgreSQL and MongoDB
  - Skills and Tools : Django, Flask , NoSQL, MySQL, Postgresql, GCP and Kubernetes, Rest api, MongoDB, AWS, Reactjs, Angularjs, java, Golang

09/2022 - 11/2022

Coimbatore, Tamilnadu

### Software Developer

#### Infognana Solutions

- PROJECT 4: E-commerce websites Data Scraping [2022-2022]
  - Project Description: Spearheaded a comprehensive web scraping initiative to extract vital data from a diverse range of websites, including e-commerce platforms and medical resources.
  - Employed a variety of scraping tools and technologies, such as BeautifulSoup, Scrapy, and Selenium, to access and retrieve data.
  - Designed and executed data extraction algorithms to capture product information, pricing, descriptions, and medical research data.
  - Successfully navigated dynamic websites with interactive elements, utilizing Selenium to simulate user interactions and extract essential information.
  - Ensured data accuracy and consistency through robust error handling and real-time monitoring systems.
  - Leveraged AWS S3 for secure cloud storage, facilitating the seamless storage and retrieval of the scraped data

## EXPERIENCE

07/2019 - 06/2022

Remote, Tamilnadu

### • Software Developer

#### MS Solutions

- PROJECT 3: AWS Data Pipeline and Analytics for Customer Proactive Insights [2019-2022]
  - The COMPASS (Customer Proactive Analytics) project is focused on deriving valuable customer insights from data sourced from various AWS data sources, including Collectors, BCI, DNAC, and TAC. The project involves extensive data transformation, analytics, and visualization.
    - Data Sourcing and Transformation
      - Data is sourced from different AWS data sources, and AWS Glue is used for Extract, Transform, Load (ETL) processes. AWS Glue simplifies data preparation and transformation tasks, making it easier to aggregate and cleanse data.
      - ETL jobs are designed to overlay the collected data with analytics results, categorizing it into five main categories: Software, Security (PSIRT Exposure), Coverage, Last Day of Support (LDoS), and Customer Education Data (Technical Skills)
    - The data is then transformed and processed, and the resulting datasets are stored in Amazon Redshift, a powerful data warehousing service for data analytics
  - Visualization and Reporting
    - For creating interactive dashboards and reports, AWS Glue and Amazon EMR are used to process the data, and the final datasets are made available for analysis in Amazon Redshift.
    - AWS Lambda functions are employed to trigger data processing and update dashboards automatically as new data arrives.
  - Scalability and Cost Efficiency
    - AWS EMR clusters are employed to scale data processing based on workloads, allowing us to efficiently handle large datasets.
    - The use of serverless AWS Lambda functions and AWS Glue reduces operational costs and improves overall functionality.
  - Integration and Automation
    - REST APIs and AWS Lambda are utilized to update data in the COMPASS Tracker, providing real-time insights into customer data.
    - Old codebases have been revised and modularized, updating them to modern development standards. AWS services have been integrated to enhance functionality and reduce operating costs.
  - Advanced Data Processing
    - In some cases, PySpark is used on AWS EMR clusters to perform advanced data transformations and machine learning on the customer data.
    - AWS Glue's extensible architecture allows us to incorporate additional custom data processing steps as needed.
  - Skills and Tools
    - AWS Glue, AWS EMR, Amazon Redshift, AWS Lambda, REST API, PySpark, and Informatica.

07/2019 - 06/2022

Remote, Tamilnadu

### • Software Developer

#### MS Solutions

- PROJECT 2: Data Visualization [2019-2022]
  - We're using Google Colab, a hosted Jupyter notebook that allows code to be executed on the cloud. We chose this platform so one can really quickly interact with the code with limited set-up time and share with others. The first thing we like to do is to connect our google drive in case we need to save any visualization files to download later
  - Get Data from AWS S3 Bucket with Colab
  - As per Requirements we Cleaned Data's and Created weekly and monthly reporting both Excel formats, csv and data Visualisation using Pandas, Numpy, Matplotlib and Dask etc.
  - Create reporting templates that can be automated or easily generated based on core data
  - Driving data visualization and data structures requirements across various business metrics and views
  - Skills and Tools : Aws S3, Google Colab, Pandas, Numpy, Matplotlib, Dask, Datastructures, Machine Learning, Python, Golang, Reactjs, Html, Css5, Angularjs, javascript, java, springboot

## EXPERIENCE

07/2019 - 06/2022

Remote , Tamilnadu

- **Software Developer**

- **MS Solutions**

- PROJECT 1: E-commerce and Medical Data Scraping [2019-2022]
  - Project Description: Spearheaded a comprehensive web scraping initiative to extract vital data from a diverse range of websites, including e-commerce platforms and medical resources.
  - Employed a variety of scraping tools and technologies, such as BeautifulSoup, Scrapy, and Selenium, to access and retrieve data..
  - Designed and executed data extraction algorithms to capture product information, pricing, descriptions, and medical research data.
  - Successfully navigated dynamic websites with interactive elements, utilizing Selenium to simulate user interactions and extract essential information.
  - Ensured data accuracy and consistency through robust error handling and real-time monitoring systems.
- Leveraged AWS S3 for secure cloud storage, facilitating the seamless storage and retrieval of the scraped data.
- Key Achievements:
  - Effectively gathered and processed extensive volumes of data from e-commerce websites, contributing to data-driven business strategies.
  - Enabled medical researchers to access up-to-date medical information, streamlining research efforts and facilitating advancements in healthcare.
  - Customized web scraping scripts to handle the unique challenges presented by both e-commerce and medical websites.
  - Developed an automated data pipeline for continuous data updates, ensuring that information remains current and relevant.
  - Collaborated closely with cross-functional teams to integrate scraped data into analytics tools for actionable insights.

## EDUCATION

06/2015 - 04/2019

- **B.TECH in INFORMATION TECHNOLOGY**

- **Dr.Sivanthi Aditanar College Of Engineering**

## SKILLS

Algorithms	Angular	angularjs	API	apis	Automation	AWS	AWS Glue	AWS Lambda	
AWS S3	AWS Services	beautiful soup	Cloud Storage	Configuration	CSS	CSV			
Data Extraction	Data Science	Data Structures	Data Visualization	Data Warehousing	Django				
Docker	EMR	Encryption	ETL	EXCEL	flask	GCP	Github	Gmail	Golang
Google Drive	HTML	Informatica	Java	Javascript	JIRA	Json	Python	Django	Flask
Reachjs	SoapUI	Tendorflow							

## SUMMARY

Organized and dependable candidate successful at managing multiple priorities with a positive attitude. Willingness to take on added responsibilities to meet team goals. Enthusiastic Full Stack Developer eager to contribute to team success through hard work, attention to detail and excellent organizational skills. Motivated to learn, grow. Considered hardworking, punctual and driven