

POOVARASAN S

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SUMMARY

Experienced with 5+ years in python developer and IT, seeking challenging software development roles. Proficient in Python, Selenium, Scrapy, web crawling, Fastapi, Flask and Nosql databases and cloud based AWS services, Azure. Committed to excellence and professional growth by delivering creative solutions with motivation, organization, and confidence and ready to contribute to a versatile team, Always love to improve the new things which can recover the existing technology.

EDUCATION

UNIVERSITY OF MADRAS, CHENNAI

Master of Science (M. Sc)

August 2018 - May 2020

CGPA 4.0

VEL TECH RANGA SANKU ARTS COLLEGE, CHENNAI

Bachelor of Science (B. Sc)

January 2015 - June 2018

CGPA 9.18

SKILLS

- Web Scraping : Selenium, Scrapy, bs4, Request, Ache, Crawling
- Programming Languages: Python.
- Web Technologies: HTML, JavaScript
- Framework : Flask, Tkinter, Fastapi
- Cloud Technologies: AWS, Azure
- Database Knowledge: MongoDB, SQL
- Build Tools: Jenkins, Docker
- Version Control: Git, GitHub, s3bucket.
- Tools: Vscode, Draw.io, Postman
- Extensions : Chrome, Tor, Firefox
- Captcha Solution : Twocaptcha, Bright data, Zen rows

WORK EXPERIENCE

Python Web Scraper & Web Crawling

July 2025 - Present

PAYSECURE TECHNOLOGY PVT LTD - Project Title – Carding & Dark-web

Jaipur, India

- Integrates with external threat intelligence feeds for additional early warnings of leaks data scraping using selenium and scrapy.
- Experienced in web automation and data extraction using Selenium WebDriver for Chrome, Firefox, and Tor browsers.
- Developed efficient web crawling pipelines using Scrapy, optimizing data collection from structured and unstructured HTML content while handling anti-bot measures. Implementing headless browsing, proxy rotation, and CAPTCHA solving techniques to ensure seamless data extraction.
- Web crawlers/scrapers specifically designed to navigate and efficiently index ransomware sites, forums, and marketplaces on the dark web.
- Uses pattern matching, keyword searches, and change detection algorithms to identify new “victim announcements” by ransomware groups.
- Handling HTTP, Torrent and Tor download protocols, ensuring seamless data acquisition.
- Developed **CAPTCHA-solving solutions** using machine learning and automated recognition techniques for seamless web scraping and data extraction.
- Creating efficient **Docker-files** for containerized deployment, ensuring scalability and portability across environments.

python Web Scraper

December 2022 – July 2025

SAPTANG LABS PVT LTD - Project Title – Ransomware & Dark-web

Chennai, India

- Integrates with external threat intelligence feeds for additional early warnings of leaks data scraping using selenium and scrapy.
- Experienced in web automation and data extraction using Selenium WebDriver for Chrome, Firefox, and Tor browsers.
- Developed efficient web crawling pipelines using Scrapy, optimizing data collection from structured and unstructured HTML content while handling anti-bot measures. Implementing headless browsing, proxy rotation, and CAPTCHA solving techniques to ensure seamless data extraction.

Python Developer

October 2021 - December 2022

DATAMOO.AI

Chennai, India

- Developed an algorithm to analyze ECG signals and compute waveform length for accurate medical insights.
- Built a high-performance **FastAPI** application for real-time processing
- Implemented an **automated labeling pipeline** to streamline document annotation within Doccano, enhancing NLP-based text analysis.
- Integrated web applications with various APIs, resulting in a 50% decrease in order processing time.
- Ensured software quality and reliability through automated testing, minimizing software bugs by 35%.
- Cooperated with designers and project managers, achieving a 95% client satisfaction rate.

Software Developer

January 2021 - October 2021

CROWN SHIELD PVT LTD – Project Title - Billing Management Software

Chennai, India

- Developed a billing management system using Flask and Python, deployed on AWS for scalability and reliability.
- Built a robust Flask-based API for handling invoices, payments, and customer records.
- Managed full deployment on **AWS**, utilizing EC2 for hosting, S3 for storage, and RDS for database management.

Python developer (Intern)

March 2020 - December 2020

NIVEDHA CORPORATION PVT LTD - Project Title - Image Search Engine

Delhi, India

- Developed an image search engine that utilizes a deep learning-based approach to identify and classify images.
- Data Collection: Gathered a set of images and performed reverse image searches on Google to retrieve relevant metadata and labels.
- **Model Training**: Processed the labeled dataset and trained a deep learning model using **pretrained word embedding models** from Google for improved accuracy.
- Deployment Architecture: Server 1 (Dataset Processing Server): Handles image dataset management, preprocessing, and indexing. Server 2 (Model Inference Server): Hosts the trained model for real-time image recognition and search. -- Github link - <https://github.com/poovarasansrinivasan/image-search-engine-using-AWS>

Python Developer (Intern)

July 2019 - January 2020

NASO TEACH – CONTRACT

Chennai, India

- Scraping the linked profile details using selenium python .
- Streamlined deployment process for applications, resulting in a 30% mitigation in deployment time.
- Elevated application performance by optimizing API calls and query caching, resulting in a 20% improvement in overall efficiency. Engaged in Agile scrum meetings, providing regular progress updates to the team. --- Github link - <https://github.com/poovarasansrinivasan/mini-project-linkedin-->

PROJECTS

ECG - Digitization

- A tool developed using python to convert images of ECG's into signals of ECG basically digitize them. There is a lot of ECG image data all around, if we could digitize all of them we would be able to gather so much of digitized data which can be further processed or fed easily into machines for any kind of predictions.

Linkedin profile scraping

- Automating the extraction of profile details such as names, job titles, companies, and connections. Implemented **headless browsing, proxy rotation, and CAPTCHA handling** to ensure efficient and undetectable data collection.

CERTIFICATIONS

- AWS certified cloud practitioner
- "Elite + Silver" certifications with 76% in National Program on Technology Enhanced Learning (NPTEL) courses on Python.