






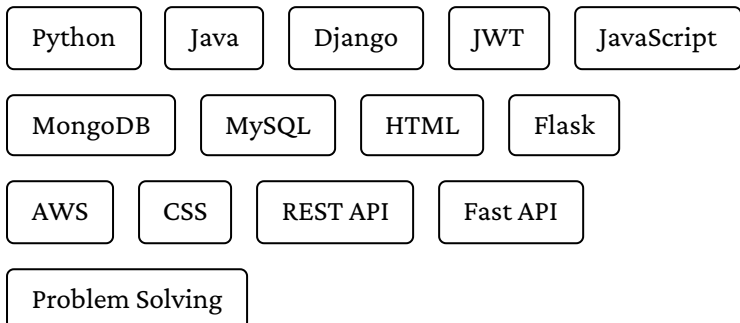


SATHISHKUMAR S

 sathishkumar54647@gmail.com  9003774140  Chennai, India (Ready to Relocate)  LinkedIn Profile

 Portfolio Website  Git Profile  Leetcode Profile  HackerRank Profile

Skills



Professional Experience

Associate Software Engineer, Ntrust

Mar 2024 – present | Chennai, India

- **OCR Engine Enhancement:** Upgraded OCR engine to Tesseract v5.3.3 with neural network processing. Implemented advanced features including **deskewing, image enhancement, and MRC compression**. Customized **multilingual language data** to improve text recognition accuracy.
- **Django Web Application Development:** Designed and developed a Django web application for the NTT model platform, utilizing Django REST Framework, JWT authentication, and MongoDB backend. Built a **lightweight frontend** for seamless user interaction.
- **PDF Redaction System:** Developed an **automated PDF redaction system** using Python and modules such as 're', 'json', 'openpyxl', and 'PyMuPDF'. Integrated **text coordinate analysis** for precise redaction of sensitive information.
- **Cross-Functional Collaboration:** Worked closely with **cross-functional teams** to integrate **OCR and redaction systems** into existing workflows, enhancing **NLP processing efficiency** and **automating document processing**.

Trainee Software Engineer, Ntrust

Sep 2023 – Mar 2024 | Chennai, India

- **Langchain AI Bot Enhancement:** Conducting R&D on Langchain AI bot optimization and **prompt engineering** to refine output generation based on client requirements. Implemented **report generation and file download options** within the chat interface.
- **OCR Engine Research & Development:** Utilizing Docker containers for Tesseract v5.3.3 R&D, evaluating the **advantages and limitations** of upgrading from Tesseract v3 to enhance **text recognition capabilities**.
- **AWS S3 File Management & Security:** Developed a **document downloader and uploader tool** for AWS S3. Conducting R&D on AWS KMS security services to enable **secure file transfer**. Working on **custom AWS policy configurations** to meet **specific security and compliance requirements**.

Academic Internship

- **AI-Powered Nutrition Web App:** Developed an **AI-powered nutrition analysis web application** for fitness enthusiasts using Flask. Implemented a **CNN neural network** for **real-time image recognition** as part of an IBM project.
- **Face ID Authentication System:** Created a **2-step authentication system** with **Face ID** using OpenCV, integrating a **web interface** built with HTML, CSS, and JavaScript within the Flask framework.
- **Data Extraction & NLP Processing:** Executed **data extraction and NLP tasks** using Beautiful Soup, Requests, and NLTK for **text analysis**, including **sentiment scoring and subjectivity calculation**.

Worked Tools

Docker | GitHub | GIT | Jenkins
| Postman | Kubernetes |
Winscp | Putty | Apache Webserver

Education

B.E. Computer Science & Engineering, Dhanalakshmi Srinivasan Institute of Technology

2019 – 2023 | Tiruchirappalli, India




Higher Secondary (12th Grade), Rajah's Higher Secondary School

2018 – 2019 | Thanjavur, India

High School (10th Grade), Kalaimagal Higher Secondary School

2016 – 2017 | Thanjavur, India

Certificates

Python, EduPeup 
Data Science Tools, ICT Academy 
Python Bootcamp, GALVIN Technology 

Interests

Music | Explore | Travel

Languages

English | Tamil