Akhil Pandaraparambil Suresh

Software Engineer | Python

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SUMMARY

Experienced Software engineer with **4.5 years** of expertise in **full-stack development, automation, ETL processes and AI integration**, delivering scalable and high-performance solutions. Proven track record of collaborating with cross-functional teams in **agile environments** to align technical solutions with business objectives.

Key Skills and Achievements:
- **Full-stack Development**: Built web applications and APIs using Flask, Django, React.js, Power Apps, and Streamlit, integrated with SQL databases. Utilized Docker for containerization, Git for version control, and cloud deployment.
- **Python Development & Automation**: Specialized in web automation, OCR, data extraction, and converting legacy macros and RPA processes into efficient Python scripts. Designed GUI tools with Tkinter and automated workflows using VBScript, Excel VBA, and BASH.
- **Data Management & AI Integration**: Proficient in ETL processes and data management with Python, SQL, MongoDB, and Azure. Integrated custom machine learning and LLM-based solutions to enhance workflows.

PROFESSIONAL EXPERIENCE

Senior Software Engineer
Optum Global Solutions India Pvt. Ltd   Hyderabad, India | 27.01.2023 – 28.12.2024
- Developed Python backend frameworks to automate auditing processes by interacting with IBM PCOMM and SQL.
- Built full-stack web applications using Flask, React.js, FastAPI, Streamlit, Microsoft SQL, MongoDB and Docker.
- Integrated Large Language Models (LLM) and AI/ML technologies into new and existing applications.
- Built custom internal tools to assist the development team and conducted multiple internal trainings.
- Created tools to consume live APIs, perform USPS data cleansing, and implement Elasticsearch, Utilized fuzzy matching and NLTK libraries for data engineering and ETL solutions.
- Managed version control with Git and worked with Azure cloud services.

Python Developer
Guidehouse India Pvt. Ltd   Thiruvananthapuram, India | 16.02.2022 – 13.01.2023
- Implemented web automation, web crawling, data extraction, and other ETL operations (extract, transform, load) using frameworks like Scrapy, Selenium, pandas, NumPy, and Requests.
- Assisted with Salesforce data loading and testing, developed shell scripts for system management, and conducted Python training for colleagues.
- Developed full-stack web applications using Flask, Django, SQL and Microsoft Power Apps.

Associate
Guidehouse India Pvt. Ltd   Thiruvananthapuram, India | 24.08.2020 – 15.02.2022
- Developed Python scripts and optimized SQL queries to automate and verify multiple MIS reports.
- Demonstrated advanced Excel skills, including pivot tables, VLOOKUP, and data analysis.
- Designed and implemented detailed surveys using Qualtrics.
- Participated in full project lifecycle from requirements gathering, estimation, development and deployments.

TECHNICAL SKILLS

Languages: Python, SQL, VB Script, Golang
Frameworks: Flask, FastAPI, React.js, Django, Streamlit
DevOps & Cloud Technologies: Docker, Git, Azure
AI/ML & NLP: Hugging Face (Transformers, Tokenizers, Datasets), Scikit-learn
Automation Tools: pywin32, Pyautogui, Power Automate, Tkinter, UI path

Testing & Utilities: pytest, smtplib, keyboard
ETL & Data Tools: Pandas, NumPy, Polars, SQLAlchemy, Regex
Data Extraction & Parsing: Scrapy, Requests, BeautifulSoup, Selenium, Playwright, pdfplumber, PyMuPDF, pytesseract, OpenCV
Big Data: Azure Data Factory, Elasticsearch

EDUCATION

Bachelor of Technology in Computer Science and Engineering
APJ Abdul Kalam Technological University   **Kerala, India | 05.08.2016 - 29.11.2020**

- **Total Percentage**: 73 %
- Recognized by the German ANABIN database

PROJECTS

1. **FastAPI Job Matching API with Elasticsearch [GitHub]**
   a. **Tech Stack: FastAPI, Elasticsearch, Python, Docker, Pytest**
   b. **Description**: Designed and developed a FastAPI-based job matching API that efficiently retrieves and ranks job postings and candidates using Elasticsearch. The API supports relevance-based search, filtering by salary, skills, and seniority, and is fully containerized with Docker.
2. **IT Job Market Insights on Germany [GitHub]**
   a. **Tech Stack: Python, Pandas, BeautifulSoup, Requests, Selenium, Tableau**
   b. **Description**: Conducted data extraction and analysis of IT job postings in Germany using web scraping techniques. Processed and cleaned job market data with Pandas and visualized key insights using Tableau. Automated data retrieval with Requests to track trends over time.
3. **Dappy - Django Pet E-commerce Platform [GitHub]**
   a. **Tech Stack: Django, Python, PostgreSQL, HTML, CSS, JavaScript**
   b. **Description**: Built a pet e-commerce platform that allows users to browse, search, and purchase pet-related products. Implemented features like product listing, user authentication, and order management. Integrated a PostgreSQL database for secure and scalable data storage.

CERTIFICATIONS

- **Microsoft Azure AZ-900**: Microsoft Azure Fundamentals
- **Data Analysis with Python**: IBM on Coursera
- **Microsoft Azure Machine Learning**: Microsoft on Coursera
- **Introduction to Git and GitHub**: Google on Coursera
- **Agile Project Management**: Google on Coursera
- **Agile with Atlassian Jira**: Atlassian on Coursera

LANGUAGES

- **English**: Advanced (C1)
- **German**: Intermediate (A2)
- **Malayalam**: Native
- **Hindi**: Upper Intermediate (B2)

HOBBIES

- **Reading**: I enjoy reading a variety of content, from books and blogs to theses and newspapers. I find it entertaining to observe and understand on different perspectives.
- **Pencil Sketch**: I create pencil portraits and traditional mural art like *Bhittichitra*.
- **Traveling**: Meeting new people, experiencing diverse cultures, and facing new challenges excite me. I particularly enjoy blue beaches, sunny weather, green surroundings, and historic sites.
- **Dance**: I took up dancing in college and found it fascinating.

PUBLICATIONS

"Hospital Managing QR Code Web Application Using Django and Python"   *| IJCRT, Vol 8, Issue 5 May 2020*

- **Link to paper**: https://ijcrt.org/papers/IJCRT2005507.pdf
- **Description**: Development and implementation of a web application for hospital management, utilizing QR codes. This application is built using the Django web framework.

ADDITIONAL INFORMATION

Visa Status: Germany Opportunity Card (Job seeker)   **01.01.2025 – 31.12.2025**

Deggendorf, Germany

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