AKHIL PS
Data / Software Engineer

Tel: +91 7907155998 | Email: akhilpsinbox@gmail.com| Nationality: Indian
DOB: 29/04/1998 | Gender: Male | Address: Kochi, India (Home)

https://bit.ly/akhilps | https://www.linkedin.com/in/akhil-ps | https://github.com/akhilpsin

About Me

Software Engineer with 4 years of expertise in Python, full-stack development, data engineering, and automation. Excel at collaborative work and agile mentorship with a track record of process improvement and efficient cross-platform tool creation. Eager to contribute technical skills and a passion for learning to a dynamic team. Open to relocation and embracing new challenges.

Experience

Senior Software Engineer   (27/01/2023 – CURRENT)

Optum Global Solutions (India) Pvt. Ltd | Hyderabad, India

- **Python Development for Data Efficiency**: Authored Python scripts to streamline medical insurance data auditing, reducing manual effort by 80%. Engineered sophisticated data reporting tools utilizing algorithms like Fuzzy String Matching and NLTK for enhanced data accuracy and insight.
- **Automation and Integration Expertise**: Implemented automated ETL pipelines, achieving a 60% reduction in data processing time. Developed API services to facilitate seamless data integration across multiple database systems. Customized Windows software solutions to meet unique client requirements.
- **Team Collaboration and Tool Creation**: Collaborated with diverse teams organization-wide, leveraging GitHub and other repositories for code management. Designed internal tools to aid developers, significantly cutting down development timelines and improving productivity.

Python Developer   (24/08/2020 – 13/01/2023)

Guidehouse India Pvt. Ltd | Thiruvananthapuram, India

- **Timesheet Automation**: Developed a Python tool to automate timesheet analysis, reducing manual input by 60%. Actively engaged in public service projects, such as those with NYSERDA.
- **Data Extraction and Client Solutions**: Delivered data solutions to a wide international clientele. Excelled in data extraction from diverse sources like PDFs, images, and websites, employing techniques such as web scraping, crawling, and OCR. Played a key role in server migration and upkeep.
- **Reporting, Automation, and Training**: Produced and verified management reports with advanced Excel. Authored shell scripts for routine system tasks to boost efficiency. conducted trainings for new and existing staff in Python, designed detailed surveys with Qualtrics, and managed data within Salesforce.

Skills

Programming Languages
- Advanced: Python, VB Scripting
- Intermediate: C, Java, SQL / NoSQL

Web Development / Frameworks
- Advanced: HTML, CSS, JavaScript
- Intermediate: React, Flask, Django

Database Management
- Microsoft SQL Server, SQLite, PyMongo, SQLAlchemy, pyodbc

Cloud Platforms
- Intermediate: Azure
- Beginner: Google Cloud Platform (GCP)

Project Management
- Tools: Rally, Jira
- Methodologies: Agile, Scrum, Waterfall

Version Control
- Git, Bitbucket

Software Proficiency
- Design Tools (Advanced): Canva
- Office Productivity (Advanced): Microsoft Word, Excel, PowerPoint

Data Visualization
- Intermediate: Microsoft Power BI

Robotic Process Automation (RPA)
- Beginner: UI Path, Power Automate

Python Libraries and Data Science Tools
- Pandas, NumPy, Matplotlib, Scikit-learn, Polars, pytesseract, OpenCV, pdfplumber, pypdf, PyMuPDF, pywin32, Scrapy, BeautifulSoup, Requests, Selenium, Playwright

Education

Bachelor of Technology in Computer Science and Engineering   (2016 - 2020)

APJ Abdul Kalam Technological University | Kerala, India
Percentage/CGPA :7.64 CGPA

Certifications

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

Personal Projects and learnings

Django Based Projects:
- Touch Of Care: Hospital management Web Application (https://github.com/akhilpsin/TOC)
- Dappy : E-commerce Platform for Pets (https://github.com/akhilpsin/Dappyy)
- TO-DO : To-Do Listing Web Application (https://github.com/akhilpsin/TO-DO-web-application-Django)
- Movie Review : Film Critiques Web App (https://github.com/akhilpsin/Movie-Review-Webapplication-Django)
- Cafe Login : Login System for a Cafe (https://github.com/akhilpsin/cafe_login_django)

Green Screen Problem : HTML, CSS and Js page (https://github.com/akhilpsin/GreenScreenProblem)

Mini python projects: (https://github.com/akhilpsin/Python-Mini_projects)
- GUI Calculator using Tkinter: A simple GUI calculator coded using Tkinter.
- GUI QR Code Generator using Tkinter in Python: A simple GUI QR code generator coded using Tkinter.
- Video to ASCII Art: A simple Python code to play videos in the terminal/cmd using characters as pixels.
- Text to Audio with Python: Tkinter GUI script to convert text to speech and save as an MP3 audio file.

Scholarly works

Published an journal in IJCRT, analyzing the technical details and potential impact of academic medical web app project. (Link: https://ijcrt.org/papers/IJCRT2005507.pdf)

Language

- English : advanced (B2)
- German : Beginner (A1/A2)
- Malayalam : Mother tongue

Hobies

- Workout
- Backpacking
- Pencil sketch
- Dance