



AKHIL PS

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<https://github.com/akhilpsin>



<https://bit.ly/akhilps>

About Me

Innovative 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

- Developed Python solutions for medical insurance data auditing, reducing manual checks by 80%.
- Implemented automated ETL process to save up to 60% of the time usually needed.
- Built data reporting tools with smart algorithms for better analysis (Fuzzy String Matching, NLTK etc.).
- Created web services for easy integration with different databases.
- Led team in automating technology, boosting workflow efficiency.
- Worked with various teams under common project frameworks (Waterfall, Agile etc.).
- Managed online code storage for smoother teamwork (GitHub).
- Custom-made Windows software for client-specific needs.
- Modernized IBM PCOMM and Excel operations with new automation techniques.
- Supported internal teams with popular JavaScript frameworks.

Python Developer

(24/08/2020 – 13/01/2023)

Guidehouse India Pvt. Ltd | Thiruvananthapuram, India

- Developed Python-based tool for to automate timesheet analysis, cutting down on manual processes by 60%.
- Built an automated ETL system that utilizes intelligent algorithms for streamlined data organization and analysis.
- Contributed to public benefit initiatives, including projects with NYSERDA.
- Worked with a diverse range of international clients to deliver data solutions.
- Specialized in extracting data from various sources, including PDFs, images, and websites (scraping, crawling, OCR).
- Supported in server migration and maintenance.
- Generated/validated MIS reports using advanced Excel techniques.
- Created shell scripts to automate regular system operations, enhancing efficiency.
- Provided Python training to improve skills of new staff and existing team members.
- Designed and conducted intricate surveys using Qualtrics software for data collection and analysis.
- Assisted with data management and updates in Salesforce.

TECHNICAL SKILLS

Programming Languages

- Python, VB Scripting : Advanced
- C Programming, Java : Intermediate
- SQL / NOSQL (intermediate)

Web development

- HTML, CSS, JavaScript : Advanced
- React, Flask, Django : Intermediate

Database Management

- SQL / NOSQL: Intermediate
- SQLite, PyMongo, SQLAlchemy, pyodbc

Cloud Services

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

IDE'S & Editors

- Visual Studio Code, Eclipse IDE, PyCharm.
- Jupyter Notebook, Notepad++

Design Tool

- Canva : Advanced

Version Control

- Git, Bitbucket

Project Management Platforms

- Rally, Jira

API Development & Testing

- Postman API Platform

Project Management Tool

- Rally, Jira

Office Productivity

- Microsoft Word, Excel, PowerPoint: Advanced

Business intelligence and data visualization

- Microsoft Power BI : Intermediate

Robotic process automation (RPA)

- UI path, Power Automate: Beginner

Python libraries and data science tools

- Pandas, NumPy, Matplotlib, Scikit-learn, Polars, pytesseract, OpenCV, pdfplumber, pypdf, PyMuPDF, pywin32, Scrapy, BeautifulSoup, Requests, Selenium, playwright

EDUCATION BACKGROUND

- KMEA Engineering College
APJ Abdul Kalam Technological University | (2016 - 2020)
Bachelor of Technology in Computer Science and Engineering
Percentage/CGPA
7.64 CGPA
- CCPLM Anglo Indian HSS
Kerala state syllabus Senior secondary (+2) | (2014 - 2016)
computer science
Percentage/CGPA
83.2 %

LANGUAGE

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

HOBIES

- Workout
- Backpacking
- Pencil sketch
- Dance Enthusiast

PERSONAL/ACADEMIC PROJECT

- Touch Of Care (Django-based web application for efficient hospital management): <https://github.com/akhilpsin/TOC>
- 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(Simple GUI calculator coded using Tkinter)
 - GUI QR code generator using Tkinter in Python (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 Speech to Text Audio Mp3)
- Completed a comprehensive three-month Python Full Stack Development program, gaining practical experience and contributing to several projects, including
 - Dappy (Online E-commerce Platform for Pets): <https://github.com/akhilpsin/Dappy>
 - TO-DO (Online Application for Managing To-Do Lists): <https://github.com/akhilpsin/TO-DO-web-application-Django>
 - Movie Review (Film Critiques Web Application): <https://github.com/akhilpsin/Movie-Review-Webapplication-Django>
 - Cafe Login (Login System for a Cafe): https://github.com/akhilpsin/cafe_login_django

OTHER SCHOLARLY WORK

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>)