



AKHIL PS

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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

INTERNSHIPS

Data Analysis Intern Trainee | Inmakes Infotech Pvt. Ltd | Kochi, India (15/12/2021 – 15/03/2022)

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/Dappyy>
- 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

Full Stack Developer Intern | MYKNOT Service OPC Pvt Ltd | Bangalore, India (01/08/2021 – 01/11/2021)

Engaged in a 3-month internship focusing on web development support and backend operations, developing email marketing tools, and extracting data from sites like MagicBricks using Python's Selenium and BeautifulSoup.

Content Intern | RC Diamonds | Gujarat, India (25/05/2020 – 31/08/2020)

Undertook a three-month digital marketing internship, responsible for content creation, SEO enhancement, online course development, and social media management using tools such as Facebook Marketplace, Canva, Instagram Analytics, and various SEO optimization platforms.

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)

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>)