






# AKHIL PS

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 <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](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](https://github.com/akhilpsin/cafe_login_django)

## LICENSES AND CERTIFICATIONS

**Microsoft Azure AZ-900** : Microsoft Azure Fundamentals (2024)

## 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>)