AKHIL PS

Software Engineer | Python

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Professional Summary

Experienced Python Software Engineer with 4.5 years of expertise in **data engineering**, **full-stack development**, **API development**, **automation**, **ETL processes**, and **AI integration**. Demonstrated ability to deliver scalable, high-performance solutions and collaborate effectively in agile teams to achieve business objectives.

Technical Skills

- **Programming Languages:** Python, SQL, VB Script, VBA, Golang, Linux
- **Web Frameworks:** Flask, FastAPI, Django, React.js, Streamlit
- **Testing Automation:** pytest, smtplib, keyboard, PyWin32, PyAutoGUI, UIPath, Power Automate
- **ETL & Data Processing**: Pandas, NumPy, Polars, Regex, Tableau.

- **Web Scraping & Parsing:** Scrapy, Selenium, Requests, BeautifulSoup, OpenCV, Playwright, pdfplumber, PyMuPDF, pytesseract
- **DevOps & Cloud:** Docker, Git, Azure
- **Big Data & Databases:** Azure Data Factory, Elasticsearch, SQLAlchemy
- **AI/ML & NLP:** Hugging Face Transformers, Tokenizers, Datasets, Scikit-learn

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Professional Experience

Full Stack Developer (Part-Time)

Boeck GmbH, Leipheim, Germany   Jul 2025 – Sep 2025

- Developed an inventory management module in a Django-based ERP tool, enabling seamless product storage and retrieval for the vertical lift system and improving warehouse efficiency.
- Built a user-friendly frontend using HTML, CSS, JavaScript, Tailwind, and Bootstrap.
- Maintained and optimized the ERP backend using Python, Django ORM, and PostgreSQL, ensuring reliable system operation and integrating updates for evolving business requirements.
- Resolved technical bugs and refactored existing code.

Senior Software Engineer

Optum Global Solutions Pvt. Ltd., Hyderabad, India   Jan 2023 – Dec 2024

- Built Python automation and frameworks for medical auditing with IBM PCOMM and SQL
- Developed full-stack applications using Django, Flask, FastAPI, React.js, Streamlit, Docker, SQL and MongoDB
- Integrated LLMs and AI/ML into applications; created internal tools and led multiple trainings for dev teams
- Built live API tools, USPS data cleansing, Elasticsearch, fuzzy matching, ETL workflows, and NLTK solutions
- Used Git for version control and deployed applications on Azure

Python Developer

Guidehouse Pvt. Ltd., Thiruvananthapuram, India   Jan 2022 – Jan 2023

- Built web automation, crawlers, spoofers, and ETL tools using Scrapy, Selenium, Pandas, NumPy, Requests
- Supported Salesforce data ops, wrote shell/power scripts.
- Developed full-stack applications using Flask, Django, SQL, and Power Apps, and led Python training sessions.

Associate (Python developer)

Guidehouse Pvt. Ltd., Thiruvananthapuram, India   Aug 2020 – Jan 2022

- Automated and validated MIS reports with Python and optimized SQL queries.
- Utilized advanced Excel features (pivot tables, VLOOKUP, analysis).
- Built detailed surveys with Qualtrics and was involved in full SDLC requirement gathering to deployment.

Education

Bachelor of Technology in Computer Science and Engineering

APJ Abdul Kalam Technological University, Kerala, India   Aug 2016 – Nov 2020

- Total Percentage: 73%

Certifications

- **Microsoft Azure AZ-900** (Microsoft)
- **Data Analysis with Python** (IBM, Coursera)
- **Agile Project Management** (Google, Coursera)
- **Agile with Atlassian Jira** (Atlassian, Coursera)

Projects

- **Fast API Job Matching with Elasticsearch:** Developed a Fast API-based job matching API with Elasticsearch, supporting relevance-based search and advanced filtering [GitHub Link]
- **RAG (Gen AI) Context-Aware Chatbot with Phi 2:** Built a modular Retrieval-Augmented Generation chatbot for document querying and semantic search [GitHub Link]
- **IT Job Market Insights on Germany:** Conducted web scraping and data analysis of IT job postings, visualized using Tableau [GitHub Link]
- **Dappy - Django Pet E-commerce Platform:** Built a scalable Django platform for pet products, with secure order management [GitHub Link]
- **Smart Meal Recommendation App:** Developed an interactive Streamlit app for personalized meal recommendations [GitHub Link]
- **Shoalhaven City Council Data Extractor**: Automated data extraction from a government planning portal using Python, Selenium for structured collection of Development Application records [GitHub Link]

Publications

- "**Hospital Managing QR Code Web Application Using Django and Python**", IJCRT Vol. 8, Issue 5, May 2020. Developed a web application for hospital QR code management using Django.
- **Link to paper: https://ijcrt.org/papers/IJCRT200 5507.pdf**

Languages

- Malayalam (Native)
- English (C1)
- Hindi (B2)
- German (A2)

Additional Information

- **Hobbies:** Reading, Pencil Sketching, and Solo Travel.