HARIKRISHNAN K

Software Engineer

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SUMMARY

I am an experienced Software Engineer with four years of diverse development experience, specializing in Python, Odoo, FastAPI, Palantir, and SQL. Over the last 3.5 years, I've refined my Python expertise, with 1.5 years dedicated to Odoo, and an additional year each working with FastAPI and Palantir technologies. This journey has equipped me with a broad skill set, enabling me to effectively contribute to a variety of projects and troubleshoot complex issues. I'm eager to bring my wealth of experience to a dynamic role, using my skills in multiple technologies to create innovative solutions and help forward-thinking teams succeed.

EDUCATION

Amrita University
Master of Business Administration,
General Management
May 2021 - 2023

Indian Institute of Infrastructure & Construction (IIIC)
PG Diploma in Data Analytics
2019 - 2020

Mahatma Gandhi University
B.Tech in Computer Science
2013-2017

SKILLS

Technical Skills

- **Programming Languages**: Python, SQL, HTML, CSS, JavaScript
- **Data Analytics Tools**: Palantir Foundry, Tableau, Pentaho
- **Business Intelligence**: Tableau, Pentaho
- **Web Technologies**: HTML, CSS, JavaScript
- **Office Tools**: MS Office Suite (Word, Excel, PowerPoint, Outlook)

Additional Skills

- **Data Integration**: Experience with Pentaho and data pipelines
- **Data Visualization**: Strong skills in creating dashboards and reports using Tableau
- **Version Control**: Familiarity with Git
- **Databases**: Knowledge of SQL for relational databases

PROFESSIONAL EXPERIENCE

Systems Engineer

Tata Consultancy Services | 2022 - Present

- Built dashboards in Palantir using Workshop and Slate, providing comprehensive data visualization and insights
- Developed Foundry functions in Palantir using TypeScript and JavaScript, contributing to the creation and maintenance of custom applications
- Analyzed and validated data using Tableau, ensuring accuracy and reliability of data visualizations
- Constructed and mapped data objects in Palantir using PySpark, facilitating complex data transformations and integrations

Software Engineer

Citrus Informatics (India) Pvt Ltd | April 2021 - April 2022

- Developed and tested projects using FastAPI, ensuring high-quality API development
- Evaluated and tested recommendation engines to validate functionality and optimize performance
- Integrated and tested AWS IoT devices, contributing to IoT-related project success
- Utilized the plpython3u extension in PostgreSQL for enhanced data manipulation and processing
- Conducted unit testing of Python functions and asynchronous functions in FastAPI to maintain code quality
- Implemented Python logging, managed version control with GitLab, and used Docker for containerization
- Tested REST and GraphQL API logic using Postman to ensure API functionality and compliance with requirements

Intern (AI & Analytics)

UL Technology Solutions Pvt Ltd | August 2020 - January 2021

- Conducted Exploratory Data Analysis (EDA) using Python and Tableau, gaining insights into datasets and presenting them visually
- Performed data mining to extract useful patterns and information from large datasets
- Applied machine learning algorithms for predictive analytics, building models to predict future trends and outcomes
- Evaluated ML models to assess their accuracy and effectiveness, refining them for better performance

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CERTIFICATIONS

Palantir Technologies

- Palantir Foundry Foundations (2023)
- Palantir Foundry Application Developer Associate (2023)

Google

- Generative AI Fundamentals (2023)
- Generative AI with Vertex AI: Text Prompt Design (2023)
- Agile Project Management(2023)

IBM

- Data Science Methodology (2020)
- Tools for Data Science (2020)

Coursera

- Performing Confirmatory Data Analysis in R(2023)

PROJECTS

News Reader App

This web application aggregates news articles from multiple websites, utilizing Python and Django to build the backend architecture, BeautifulSoup for web scraping, and SQLite for database management. The app offers a unified news feed with a user-friendly interface for smooth navigation and article browsing, allowing users to quickly access diverse news sources in one place.

Covid-19 Visualizer App

This web application tracks the spread of COVID-19 throughout Kerala, providing daily updates in real time. Python and BeautifulSoup are used for web scraping to gather COVID-19 data from multiple sources, while Python Dash and Plotly are employed for data visualization. The app enables users to view dynamic graphs and charts depicting the latest COVID-19 statistics, allowing them to stay updated with the evolving situation across the state.

BLOG APP

The BLOG application is a web-based platform designed for bloggers to interact with each other and share their content. It allows bloggers to create and manage their own blog posts, while guests can view and comment on these posts. The application is built with the Django framework and uses SQLite for its database, offering a straightforward and user-friendly environment for blogging and community interaction.

Mobile Opportunistic Network

The Mobile Opportunistic Network" is an application designed for location-based advertising, specifically to help small-scale shops promote their products at lower costs. By leveraging mobile technology, this application allows businesses to advertise to users in specific locations, increasing visibility and potentially boosting sales. The application is developed using PHP and Android technologies, ensuring compatibility with a wide range of mobile devices and offering a platform for small businesses to reach their target audience effectively.

PROFESSIONAL EXPERIENCE

Python Developer

Empire AE IT Services | August 2020 - January 2021

- Customized and implemented Odoo ERP, tailoring enterprise resource planning solutions to meet client-specific business needs
- Developed and built modules for Odoo, facilitating smoother management of business operations for clients
- Collaborated with stakeholders to understand requirements and deliver efficient ERP solutions
- Integrated additional functionalities into existing Odoo systems to improve efficiency and automation

Programmer Analyst ERP

Exelixir Analytics Private Limited | July 2018 - September 2019

- Designed, developed, and tested Odoo (OpenERP) addons, projects, products, and interfaces, delivering tailored ERP solutions
- Implemented and configured Odoo on web servers to meet client requirements for ERP system deployment
- Used Pentaho Data Integration/Kettle to design ETL processes, extracting data from various sources, cleansing, and loading into target data warehouses
- Created complex transformations in Pentaho involving several steps, including:
- Table Input, Table Output: Extracted and loaded data from/to database tables
- Text File Output, CSV File Input: Managed file-based data sources
- Insert/Update: Maintained database records
- Add Constants, Filter, Value Mapper: Data manipulation and filtering
- Stream Lookup, Join Rows, Merge Join: Performed data joining operations
- Sort Rows, Database Lookup: Sorted and looked up data for processing
- Set Environment Variables: Configured environment-specific settings

Software Engineer Intern

Quest Innovative Solutions | January 2018 - July 2018

- Designed, developed, and tested Django-based projects, products, and interfaces, contributing to web application development
- Created web pages using HTML/HTML5 and CSS/CSS3, ensuring cross-browser compatibility and responsive design
- Conducted web scraping using Python packages, extracting data from various online sources for analysis and integration