Kumar H

Lead Python Engineer, 15+ years experience
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I am a seasoned Lead Python Engineer with over 10 years of experience designing, developing, and delivering robust software solutions across diverse industries. With deep expertise in Python and its ecosystem, I have consistently led high-performing engineering teams to build scalable, maintainable, and high-impact systems. Throughout my career, I have architected end-to-end solutions spanning backend services, data pipelines, API integrations, and cloud-based infrastructure. Their technical proficiency spans frameworks such as Django, FastAPI, and Flask, along with strong command of MySQL for relational database design and optimization, Microsoft Azure for cloud infrastructure and deployment, and Supabase for modern backend as a service and real time database solutions.

INDUSTRIES: Safety and Security, Import and Export Trade Intelligence

TECHNICAL SKILLS

• Python	9 years & 2 months
• MySQL	6 years & 7 months
• Azure	5 years & 7 months
• Node.js	4 years & 3 months
• Pandas	4 years & 6 months

PROJECT DETAILS

• Smart Snout Ltd

Project Description: We developed the Smart Snout app using Agile methodology, adding secure SSL integration, image recognition, email reminders, and guest access features. Launched in July 2021 on both the App Store and Google Play, the app gained over 400 users quickly, received positive feedback, was featured on ITV, and partnered with local vet centres to help prevent dog theft.

Responsibilities: I adopted an Agile development approach for flexibility and fast delivery. We built a secure and scalable system using SSL encryption and version control tools like Git. A state of the art image recognition system was developed to scan and match dogs unique nose prints. The app also included user registration and login features, an integrated email notification system to remind and update users, and guest access to allow non-subscribers to report found dogs without barriers. The solution was designed to be simple for pet owners to use while maintaining robust backend systems to manage the biometric data efficiently.

Technologies: Python Firebase SDK Image Recognition System

Industry: Safety and Security

• C 360

Project Description: The platform serves businesses operating in the import-export domain, where large volumes of vendor and trade-related data are generated and consumed regularly. These businesses rely heavily on structured data to analyse trade patterns, evaluate vendor performance, and make strategic decisions.

Responsibilities: Refined and enhanced an existing B2B data platform for improved usability and performance Redesigned the UI/UX for better data interaction and user workflows Developed and optimised bulk data ingestion for Excel and CSV files Implemented advanced data visualisation with charts, graphs, and analytics dashboards Integrated AI-based data extraction module for smarter data processing Improved system performance for faster data handling and query execution Built and enhanced role-based access control (System Admin, Client Admin, User) Ensured scalable cloud storage using Azure Blob and AWS infrastructure

Technologies: Python Django REST Framework React JS AWS

Industry: Import and Export Trade Intelligence

Link: https://dev.c360.app/

EMPLOYMENT HISTORY

• Senior AI Engineer

Description: A full stack AI engineer who bridges the gap between machine learning research and production-ready software. Skilled in designing intelligent systems from model layer to user interface — integrating LLMs, retrieval-augmented generation, and agentic workflows into scalable web applications. Works across the full stack with fluency: Python backends, REST and streaming APIs, React frontends, vector databases, and cloud infrastructure. Brings a systems-thinking mindset to every layer of the stack — shipping AI features that are fast, reliable, and genuinely useful.

EDUCATION

• Bachelors degree in Computer from Maharishi Dayanand Saraswati University, Ajmer — 2007 - 2010

LANGUAGES

• English - advanced

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