

VIKASH SHARMA

Python Backend Developer

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CAREER SUMMARY:

- **Python Backend Developer** with **3+ years** of experience building scalable backend solutions, APIs, and data pipelines.
- Proficient in **FastAPI**, **Django**, and **Flask**, with hands-on experience in **cloud deployments** and **micro-service architecture**.
- Expertise in e-commerce, social media, and news platform solutions, enhancing **search engines**, **data pipelines**, and **automation workflows**.

WORK EXPERIENCE:

Digitem

Python Developer | 1st June 2023 - 10th Aug 2024

- Developed data pipelines and APIs using FastAPI, focusing on news websites and OSINT projects.
- Created web scrapers for social media platforms using Selenium and Scrapy, automating them via Prefect.
- Managed a three-tiered MinIO-based data pipeline ensuring reliable data processing.
- Set up full DevOps pipelines using Kubernetes, Bitbucket, and Jenkins.
- Implemented RabbitMQ and MQTT-based notification systems for real-time alerting.

Appscrip

Python Developer | 16th Aug 2021 - 31st May 2023

- Enhanced search quality for e-commerce using Mongo Atlas Search and reduced server costs.
- Developed a bulk product upload system and a flexible coupon system, boosting sales.
- Implemented SEO tools like slug generators and automatic sitemap creation for improved Google search ranking.
- Built a freelisting product stream, allowing automatic listing on Google and Meta products, significantly increasing online visibility.
- Created scrapers for YourStory, LinkedIn, and Instagram to extract business data.
- Managed cloud deployments on AWS and developed SDKs for social media apps like Fanzly.

SKILLS:

- Languages: Python, JavaScript
- Frameworks: FastAPI, Django, Flask, Scrapy, Selenium
- Databases: MongoDB, Redis, OpenSearch
- Search Engines: MongoDB Atlas Search, Elasticsearch
- DevOps: Kubernetes, Bitbucket Pipelines, Jenkins, Docker, Nginx
- Cloud: AWS, DigitalOcean, Minio
- Messaging: RabbitMQ, MQTT
- Tools: Prefect, Celery, Cron jobs

EDUCATION:

Chandigarh University

Bachelor of Computer Application

CERTIFICATIONS & ACHIEVEMENTS:

- **Problem Solving (Intermediate)** | HackerRank
 - Covers topics in Data Structures (HashMaps, Stacks, Queues) and Algorithms (Optimal Solutions).
- **Programming with Generative AI** | Coursera
 - Focuses on generating code efficiently.
 - Boosting productivity with real-time suggestions
 - Fostering creativity through AI-driven guidance.

PERSONAL PROJECTS:

- Omnifood Clone – Developed a responsive food ordering website clone using HTML, CSS, and JavaScript.
- Facebook Scraper – Built a web scraper using Python to extract posts and user data from Facebook.
- Twitter Scraper – Created a scraper to gather tweets and analyze trends from Twitter, utilizing Tweepy and BeautifulSoup.
- Gun Detection – Implemented a gun detection system using machine learning, integrating computer vision techniques.
- Redis Database – Developed a clone of the Redis database, focusing on in-memory data structure handling and high-performance data storage.

PROJECTS:

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- **News Website - FastAPI**
 - Developed the backend for a news website using FastAPI, focusing on scalability and high performance.
 - Implemented a Scrapy-based scraper to aggregate news from 64 diverse sources.
 - Created an admin panel backend for users to easily add new news sources.
 - Automated the news collection process by configuring a cron job for regular updates.
- **Trend Tracking Tool - Django Rest Framework**
 - Developed backend APIs for tracking trends, allowing users to monitor spam activities with filters for geo-location and specific users.
 - Created a scalable scraping tool integrated with RabbitMQ, enabling future scaling by increasing the number of workers.
- **User Monitor Tool - FastAPI**
 - Designed a tool that allows users to monitor social media activity (Twitter, Facebook, Instagram) by tracking posts of specific users.
 - Integrated Sherlock search to identify usernames across 100+ platforms.
- **All-in-One Tool - FastAPI**
 - Developed backend CRUD functionality for managing keyword search across 7 social media platforms, retrieving all matching results.
 - Integrated a gun detection model and added photo matching features for the User Monitor tool.
 - Created analytics APIs to process and analyze data from over 1 million data points.
- **Twitter Social Media Manager - Django Rest Framework**
 - Developed analytics APIs based on log data.
 - Created features for bulk posting, bulk retweets, and scheduled reposts for specific users.
 - Automated reposting tasks with cron jobs for enhanced scheduling flexibility.
- **Kubernetes Workload Setup & CI/CD Automation**
 - Set up the entire application workload on Kubernetes, ensuring smooth orchestration and scalability.
 - Configured Bitbucket pipelines to automate the CI/CD process.

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- **Promo Code System:** Developed a promo code system for social media apps, e-commerce sites, and product-selling platforms, allowing users to apply codes during purchasing.
- **Bulk Product Upload:** Implemented bulk product upload functionality to streamline product management for e-commerce platforms.
- **Abandoned Cart Recovery:** Developed cron jobs for abandoned cart recovery, increasing conversion rates by reminding customers to complete purchases.
- **Analytics APIs:** Created analytics APIs for both e-commerce and social media platforms, providing insights into user behavior and business performance.
- **SEO Optimization Tools:** Implemented SEO tools like slug generators and automatic sitemap creation to improve Google search rankings and online visibility.
- **Freelisting Product Stream:** Built a freelisting product stream that automatically lists products on Google and Meta platforms, significantly enhancing online visibility for businesses.
- **Business Data Scrapers:** Developed scrapers for YourStory, LinkedIn, and Instagram to extract business-related data for analysis and marketing purposes.
- **Cloud Deployments:** Managed cloud deployments on AWS, ensuring reliable and scalable infrastructure for various applications.
- **SDK Development:** Created SDKs for social media platforms, including Fanzly, to support key backend features and integrations.
- **ElasticSearch & Mongo Atlas Integration:** Developed two versions of a search engine using ElasticSearch and Mongo Atlas, enhancing search efficiency and scalability for e-commerce platforms.
- **Post and Product Management Backend:** Created a robust backend for managing posts and products, allowing seamless content and inventory control.
- **Dynamic Filters:** Implemented dynamic filters for product and post searches, enabling users to refine search results based on multiple customizable criteria.