Krishna Upadhyay

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SUMMARY

- Having 4+ years of relevant work experience in the full software development lifecycle with varying levels of responsibilities.
- Being a Software generalist, Polyglot, and Full-stack developer with extensive experience in backend development, able to work independently as well as in a team.

SKILLS

Programming Language: Python, Golang, Javascript
Web framework: Flask, FastAPI, Falcon, Django
Deployment: Docker, Docker-Compose, Kubernetes
Databases: MongoDB, ElasticSearch, Redis, PostgreSQL

OS: Linux, Windows
VCS: Git, Gitlab, Github, JIRA
ML/AI: NLP, OpenCV
OTHERS: Nginx, Apache Druid, Supervisor, AWS

WORK EXPERIENCE

Senior Software Engineer, Koshex   December 2021 - present
Fintech startup making investments easy
- Designed ElasticSearch based system for search with on-disk cache , mapping creations, indexing, full text search, pagination, filtering for the searching Mutual funds based schemes using python flask framework on AWS EC2.
- Created Backend APIs for Goals, Profiling modules using postgresql as the database and flask framework
- Integrated MMTC-PAMP module for buying , selling, gifting gold with generation of Bill invoices as PDF.
- Automated Google-Sheets api with database for the showing data related to Leads/ Leads Activity data of everyday for marketing team
- Integrated Morning Star Apis for automatically updating Navs for the mutual funds schemes.
- Created Migration scripts for databases, Apis for blogs ,Fixing Bugs, maintaining server infrastructure in the cloud.
- Working on Designing Current Monolithic Backend into microservice patterns using AWS ECR, EKS, Fargate for the scaling of the backend code for the future perspective.
- Experienced and configured multiple AWS Technologies such as API Gateway, EC2, VPC, Lambda, ECR, Code Build, Code deploy, Load Balancer, EC2 creation etc. for backend services.

Server Programmer, Kwalee   August 2021- Nov 2021
Game publishing based startup
- Adding new feature requirements and tests on the internal projects belonging to advertisement , marketing and game management using bitbucket and jira for project management.
- Added the docker and docker-compose support for all the projects and elasticsearch for the ease of project setup and test running.
- Created design documents and code for a central authorization server providing roles and permission based access to all the other internal projects being used by different teams.

Software Engineer, Prune.ai (Freelancer)   June 2021- July 2021
A US based startup using AI/ML for influencer marketing.
- Worked on the django project adding functionality for the influencer search and database modeling
- Worked on data pipeline for scraping the influencer data from the instagram to be used for machine learning
- Working on setting up the python project running with nginx and supervisor on digitalocean

Senior Software Engineer, RecoSense InfoSolutions Pvt Ltd   Mar 2020 - May 2021
A SaaS-based Start-up providing solutions to OTT and News platforms with personalization and recommendations, Worked on multiple projects doing code reviews, code merge, and was responsible for getting new requirements, maintaining, fixing bugs, and supporting the Project in Django, Flask, and falcon.
  Big Data Analytics
- Worked on a Big Data Analytics project using AWS-EMR, Hadoop, Spark, Pandas for getting analytics insights from application logs data stored in S3 of a major OTT provider and Rest API layer using falcon framework for stored data in MongoDB for showing charts, Graphs, analytics on Frontend
- Worked on building a pipeline for Apache Druid (OLAP) with deployment and integrating with data source S3 for POC.
  Project KnowledgeGraph (Flask Project)
- Breaking and Design of a Flask data processing knowledge graph API monolithic into microservice reducing response time by 5x.
- Micro-service with RabbitMQ as broker and Celery as a Task Worker for People Image Asynchronous updation for a Flask project
- Using multithreading for doing HTTP requests in ontology API to reduce response time by 5x in a Flask-based project.
- FastAPI microservice for sports category classification using text processing, POS extracting and Countvector as vectorization building a voting classifier model using docker and deployment using Docker- compose
- Improving Named-entity recognition (NER) using the Ensemble of Spacy, Polyglot, and Stanford models as a FastAPI Microservice.
  Project MetaDemo
- Micro-service for News Scraping using FastAPI framework with frontend change for input box and ajax request, deployment using Docker- compose
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Project MediaSense
- Implemented REST APIs for Action Weight and Kg Weight creation and editing using MongoDB as a database for personalization and recommendation

Project MediaSearch
- Redesigned and Integrated new REST API for existing Search functionality using ElasticSearch and Introduced NLP Generated MetaTags for more accurate results using Falcon WebFramework for News OTT platform

Machine Learning Projects/POC
- Worked on a Batch learning Machine learning Project for Financial Document data extraction project with responsibility involving building pipelines for data extraction, data processing, and sentence classification using BERT-based model using Fastapi
- FastAPI based Microservice for Language Translation for multiple languages using BERT based model and hugging face Library using docker and deployment using Docker- compose
- Scraping RSS News Feeds for building KnowledgeGraph for Entity linking, category classification, and Popularity in MongoDB
- Building Scrapy and BeautifulSoup Based web crawler for crawling website and Sitemap-based crawler using FastAPI.
- Scraping Using BeautifulSoup for football players and indexing them to ElasticsSearch with full text and exact match capabilities.
- Microservice using python Falcon framework for Wikidata Sparql API for images of people using python multithreading.

Software Engineer, *ZopSmart Technology*   *Nov 2019 - Mar 2020*
Used AGILE methodologies, daily scrum, GitLab CI/CD, Docker, and JIRA for the bug track and project management

Project Web Framework
- Added support in the Web Framework for dynamic configuring HTTPS for the Golang server.
- Add support for Static file Server for rendering static files in the web framework.
- Added support for Stack Tracing in Google Stackdriver using Zipkin in the web framework.
- Added Server Push HTTP2 functionality support for the web framework.

Project Ecommerce
- Worked on customer inventory module for the zopsmart e-commerce store platform on the GCP
- Added Support for Cron Job scheduling for inventory data processing

Software Programmer, *Karthavya Technologies Pvt Ltd.*   **Feb 2018 - Aug 2019**
A startup involved with providing END to end solutions to the Broadcast media industry. Used AGILE methodologies, daily scrum, and JIRA for bug tracking and project management.

Project Transcoder
- implemented python module wrapper over opensource FFmpeg for doing multimedia editing like joining, editing, Audio extraction.
- Added supported for custom FFmpeg commands to join, trim videos
- Added support for Watermark addition to video files

Project MediaWorker
- Message/ Broadcast Rest JSON API in python using MongoDB as data-store.
- Document search Pipeline consisting of extracting text data, mappings, indexing text for the documents in ElasticSearch
- Added Highlighting and search relevancy improvement in the ElasticSearch
- Multithreaded Web scraper for scraping news articles online to load test Elasticsearch

Project HSM

- Automatic Test Environment Generation for the nightly build using python FABRIC library.
- A data Archival/Retrieval API plugin for DVD for archive and retrieving data from DVD Disks.

Personal Projects

- Search engine with a fronted-end for searching and indexing pages with full-text search capability using ElasticSearch, Python, HTML, JavaScript, and CSS. **URL:-** https://savefind.in
- Marketing data fetch Project using kotak bank Api for showing in XLSX form , url :- https://savefind.in/finsense/navbar
- Neomorphism based Login Page url :- https://savefind.in/finsense/
- Weather App a Django Based SPA weather application using the user location to get the current weather info https://savefind.in/weather/
- A website with a for taking screenshots of web pages.with **UI** using python, bootstrap, HTML.**URL:-**https://savefind.in/pyshot/
- A website with a **UI** for uploading a picture and extracting the text from it using OCR technology using python OpenCV, HTML. **URL:-** https://savefind.in/pyocr
- WebUI for login and registration using Golang, Bootstrap, and PostgreSQL as a database. **URL:-**https://savefind.in/gologin/

EDUCATION

Bachelor of Technology   **Aug 2013 - Jun 2017**
BIT Sindri, Jharkhand   Grade:- 7.26