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Kush Singh

LINKS

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EXPERIENCE

WizCommerce Pvt. Ltd, Abu Dhabi

Senior Backend Developer

MAY 2023 - PRESENT

- Led development of an Excel service project, automating catalogs, quotations, and invoices, reducing onboarding
- Developed key features for a sales automation app, including recommendation engines, order carts, and invoicing systems, while meeting project timelines in a fast-paced environment.
- Automated workflows to cut down the need for 1 developer for 2-3 days per client onboarding, including product import, custom PDF generation, background tasks, and notifications.
- Led integration of platforms like Shopify/Fishbowl, studying undocumented platforms at the database level to sync real-time data for products, orders, and invoices.
- **Tech Stack:** Python, Java, FastAPI, SQLAlchemy, Alembic, Postgres, SQS, S3, AWS Lambda, Elasticsearch, FastAPI, SQLAlchemy, REST, AWS, Kubernetes, Docker, CI/CD, Functional Programming, Redis Caching, TDD

ShareChat Pvt. Ltd, Bangalore

Senior Backend Developer

JUN 2022 - MAR 2023

- Developed a high-traffic, video and live commerce streaming service at India's largest Social Media company with a 5 Million Daily Active Users.
- Brought down infrastructure spend from \$4k/month to \$1k/month.
- Identified experiments running within the team which were making use of Postgres on dedicated servers with very low usage but high cost, moved them to shared instances.
- Identified inefficiencies in consumption and processing of uploaded videos within the system. Reduced compute servers by consuming and processing only commerce videos reducing compute costs by 30%.
- Engineered user-specific feed recommendations with ultra-low latency, enhancing ad targeting based on user preferences.
- Led integration and ingestion solutions for e-commerce vendors like Flipkart and Amazon, adapting to their specific rate limiting and constraints, ensuring efficient and uniform system integration.

- **Tech Stack:** Python, Django, Node.JS, ExpressJS, AWS SQS, ETL, Redis, Scylla, Mongo, PostgreSQL, Kafka, GCP Pub Sub, Cassandra, BigTable, BigQuery, GoLang, Mocha, Kafka, AWS, Team Leading, Unit Testing, Integration Testing.

Joveo Pvt. Ltd., Hyderabad

Senior Backend Developer

DEC 2020 – MAY 2022

- Broke away core parts of monolith like User Management, Authentication and Authorization into standalone services, packages and libraries.
- Redesigned User Management and implemented a Single Sign-On(SSO) system, enabling one-login access across multiple apps, allowing data and information transfer between apps for users securely.
- Reduced db calls significantly by choosing to embed permissions into user tokens instead of calling db to fetch user permissions for each API call.
- Gave users ability to sign-in/sign-up using external providers like Google and LinkedIn, taking in consideration security concerns they bring in.
- Architected DB schema for new systems to be backwards compatible with 4 different older UM/Auth systems.
- **Tech Stack:** Python, Scala, Mongo, Redis, AWS Cognito, Auth0, Authentication, SSO, Authorization, Real Time Bidding, Akka Http, DevOps, Microservices.

BlueOptima Pvt. Ltd, Gurgaon

Associate Backend Developer

JAN 2019–NOV 2020

- Worked on building a code metrics collection SaaS tool which calculated coding hours of developers based on commit history.
- Was a member of a 5 person team working on standalone metric collection tools, running on client servers, collecting code metrics without compromising on security.
- Increased supported languages from 5–6 languages to 32 languages within a span of 3 months which led the sales teams to target significantly more clients.
- Was part of another team to build a platform to display coding efforts, developer cost effectiveness and developer code smells.
- **Tech Stack:** Python, Java, Spring Boot, Maven, Spring Security, Spring Cloud, JUnit, PostgreSQL, Mockito, Spring Messaging, Spring Cloud, Multithreading, Concurrency, Git, JIRA, Unix, Linux, REST APIs, Design Patterns, SOLID, ACID.

EDUCATION

Thapar University, Punjab – B.TECH in Computer Science

AUG 2015 – MAY 2019

- Graduated with CGPA 7.52
- Did specialisation in NLP, and learnt basic of tokenization, lemmatization, neural networks, CNN, backpropagation by working on multiple individual projects

- Built a wikipedia search tool using word2vectors, PyTorch along with a team of 2 for my CapStone project. Scrapped 1000s of wikipedia pages for training, taking in consideration rate limiting concerns, trained a vector model on it, and implemented searching using a word2vector model.