Akarsh Gajbhiye

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WORK EXPERIENCE

Sr. Software Development Engineer   May 2022 – Present
Blitz   *(Previously GrowSimplee)*   *Bengaluru, India*

Led the development of various microservices, data pipelines, and cloud infrastructure using Java, Python hosted on AWS cloud. Currently managing a small team. Primarily working on Java Spring Boot

- Architected a generic Authentication and Authorization service with role-based access control (RBAC) using JWT tokens and AWS Cognito, featuring multi-profile support. This service is integral to all Blitz offerings, both web apps and mobile apps
- Engineered the backend for the Warehouse Management System, achieving item-level traceability, robust Inventory Management and Transfers, and handling 1.5 million transactions monthly in Java Spring Boot.
- Led the development of the Franchise Owner Service in Java Spring Boot, managing Last Mile Operations. The service processes over 5 million operations monthly, utilizing asynchronous processing with SQS messaging queues for scalability and reliability.
- Designed and implemented a generic database-driven rule engine that executes actions based on event triggers, widely used across the system.
- Initiated and managed the setup of various cloud services in Docker environments, optimizing AWS (ECS, VPC, RDS, API Gateway, Lambdas), MongoDB Atlas, Postgres, and Apache Airflow. Achieved a significant 15% reduction in cloud infrastructure costs.

Member of Technical Staff (AI/ML)   May 2020 – May 2022
AppOrchid   *Hyderabad, India*

- Innovated and led the implementation of a robust microservice utilizing computer vision and layout extraction algorithms. Successfully extracted document layout, legal entities, and contextual information (sections, clauses) from legal PDF documents using OpenCV, PyTorch, and Scikit-learn. Orchestrated seamless deployment as APIs in **Flask (Python)**.
- Co-architected and implemented a dynamic decision engine leveraging database-driven rules, executing actions based on event triggers. Utilized Flask and PostgreSQL to deliver a scalable and efficient solution.
- Played a pivotal role in a cross-functional team dedicated to developing a state-of-the-art Legal Entity extraction platform. Applied expertise in natural language processing (NLP) and employed advanced transformer-based LLMs, including Spacy and Transformers, to ensure cutting-edge solutions.
- Curated a comprehensive Legal QA dataset and utilized it to train a **BERT** QA generative model and negation detection model , leveraging the power of **LLM** and **transformer** architecture.

Open Source Development   May 2020 - Present

- Collaborated and contributed on Open source Software development like **Obsei (Oraika), NimbleEdge.**
- Developed multiple NLP modules while working on Obsei , like Topic Modelling , **Clustering** , Sentiment Analysis, Transformer models for large texts, also contributed in developing the Obsei framework.
- Contributed models on **HuggingFace** .

Misc.   May 2020 - Present

- **Co Founded** and led the technology of a SaaS **Poli** app , a platform to measure community analytics metrics tracking their growth , engagements and user behavior for social media platforms like Slack, Discord, Whatsapp using **Django**, Python Rest, Deployed on **AWS, EB**. Worked with various communities on Discord and Slack.
- Development microservices and business logic for few **freelance** clients .

EDUCATION

Indian Institute of Technology, Kanpur
Bachelor of Technology (BTech), ***Computer Science and Engineering***

SKILLS

Python*, NLP, CV, AWS , Spring, System Design, Java, Database, Cloud, C++, JAVA , Flask, REST, Django, Pytorch, Langchain,