Aakash Jhawar

+91-9413564182
aakash.16.jhawar@gmail.com

EXPERIENCE

IDfy | Technical Lead   *Jan'20 - Present (5+ years)*
IDfy is one of Asia's top 5 RegTech product companies; currently valued at $125M

India's largest Video KYC solution - Backend & Machine Learning
- Built a scalable WebRTC platform with media servers, supporting 1000+ concurrent video sessions, delivering high performance in low-bandwidth scenarios
- Used LLMs and speaker diarization to automate auditor tasks with advanced video analysis, reducing review time by 70% and enhancing fraud detection by 18%
- Developed a real-time profile assignment engine using skill-based matching and configurable priority rules, optimizing auditor productivity by 33%
- Implemented a dynamic, rule-driven workflow, enabling profiles to navigate multiple reviewer levels for compliance

Identity Verification Platform - Backend & Machine Learning
- Designed a highly scalable API Platform serving 150+ APIs, handling peak throughput exceeding 1000 RPS and 12M+ daily requests with dedicated image/PDF processing
- Introduced RPS-based auto scaling using KEDA, priority queues and intelligent request routing reducing latency by 40% and costs by 25%
- Developed an in-house OCR engine and Masking Service, achieving 98.76% accuracy in masking PII with a 1.04s turnaround time

Platform Services - Backend
- Architected a Connection Manager Service, ensuring 100% uptime by converting synchronous requests to asynchronous, eliminating connection disruptions and request failures during app releases
- Redesigned the Rate Limiting Service with adaptive limits to safeguard against request surges, throttling, and performance degradation
- Developed a centralized user access management for cloud and distributed services with AI-powered search, streamlining access requests, approvals, and audits, boosting team productivity

Infrastructure
- Contributed to developing the Multiverse architecture framework, enabling single-tenant and multi-tenant deployments across GCP and AWS
- Designed a Cloud Infrastructure Automation Pipeline using Terraform and Terragrunt on GitLab CI, automating infrastructure deployment across 20+ environments
- Implemented observability pipelines across a large-scale, multi-product infrastructure leveraging Linkerd, Prometheus, VictoriaMetrics, and Grafana
- Co-architected a comprehensive logging pipeline enabling efficient log aggregation, storage, and visualization
- Contributed to Platform Engineering initiatives, managing GCP/AWS infrastructure (networks, clusters, and more), guiding teams, enhancing security posture, and improving system reliability

SKILLS

Elixir, Python, Golang, WebRTC, LLMs, GCP, AWS, Kubernetes, Docker, Packer, Terraform, Terragrunt, Kustomize, ArgoCD, RabbitMQ, PostgreSQL, Neo4j, Tensorflow, OpenCV

EDUCATION

B. Tech in Electronics and Communication Engineering   **LNMIIT, Jaipur** | 2020
Research Publication - Social Network-based Sentiment and Network Analysis to Predict Elections - IEEE 2020 *(link)*

LINKS

- LinkedIn: linkedin.com/in/aakashjhawar
- GitHub: github.com/akashjhawar
- Website: aakashjhawar.github.io
- Blogs: aakashjhawar.medium.com