

Kaushik Kishore

Senior Staff Engineer

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SUMMARY

Senior Staff Engineer with 10+ years of experience in cloud infrastructure and distributed systems. Proven track record of reducing AWS costs by 25-40% through optimization and performance tuning. Expertise in Go, Python, Node.js, and .NET, with focus on data engineering and multi-tenant architectures. Strong background in leading technical teams, mentoring engineers, and implementing efficient CI/CD pipelines.

SKILLS

Languages: Go, Python, JavaScript (Node.js) and C# (.NET)

Technologies: FastAPI, Express.js, PostgreSQL, MySQL, MongoDB, ReactJS, Redis, AWS Services, Docker, Terraform, Kubernetes

Tools & Platforms: GitHub Actions, Dagster, DBT, Steampipe, Elastic Search, Linux

KEY PROJECTS

CloudScope: Multi-Account AWS Resource Analyzer

- Designed and implemented a configurable AWS resource collector using open-source libraries, enabling dynamic extraction of EC2, RDS, S3, and other service metadata
- Built a flexible configuration system for on-demand resource collection, allowing customizable data extraction based on business requirements
- Integrated CloudWatch metrics collection capabilities with configurable time ranges and metric selections for comprehensive resource monitoring
- Implemented fault-tolerant architecture with automatic retry mechanisms and idempotent operations, ensuring reliable data collection across service disruptions
- Engineered parallel processing capabilities to efficiently collect and analyze data across multiple AWS accounts simultaneously

CostGuard: Policy-Driven Cloud Cost Optimization Engine

- Developed a flexible policy engine that analyzes resource utilization data to identify cost optimization opportunities across AWS infrastructure
- Implemented SQL-based policy definitions allowing teams to create custom rules for identifying underutilized resources and potential cost savings
- Created an automated violation detection system that generates actionable tickets for resource optimization, such as downsizing underutilized EC2 instances
- Built a comprehensive metrics analysis system that correlates CPU, memory, and other performance indicators to provide data-driven optimization recommendations
- Integrated with ticketing systems to streamline the workflow between violation detection and DevOps team actions

WORK EXPERIENCE

Senior Staff Software Engineer

Astuto AI

Bangalore, India

Aug 2023 - Present

- Led development of cloud cost optimization policies using SQL and custom code, reducing AWS infrastructure costs by 25% across teams
- Optimized database performance by migrating from r7g.2xlarge to m7g.xlarge through query analysis and PostgreSQL tuning, achieving 40% cost savings and faster response times
- Automated RDS PostgreSQL storage optimization by developing a pipeline to create new databases with reduced storage, migrate data and roles, and update tenant connection strings, circumventing AWS storage downsizing limitations
- Built and maintained data pipelines using Dagster and DBT, processing large-scale data with high reliability and reduced processing times
- Mentored engineering teams, established best practices, and drove technical excellence through code reviews and design sessions

Lead Back End Engineer

Vauld

Bangalore, India

Jul 2021 - Aug 2023

- Architected and implemented a real-time risk management system that monitored cryptocurrency market prices, automated margin calls for under-collateralized positions, and executed systematic liquidations to maintain platform stability
- Led the modernization of the KYC verification pipeline by integrating industry-leading providers (Onfido, Jumio) for enhanced document validation and facial recognition, resulting in 40% faster user onboarding
- Developed secure integration with government identity verification APIs (PAN, Aadhar) to enable real-time validation, reducing fraud risks and improving regulatory compliance
- Established comprehensive test automation framework using Jest, achieving 80% test coverage and reducing production incidents by 80% across the platform

Staff Engineer

Western Digital

Bangalore, India

Nov 2018 - Jun 2021

- Built and optimized CI infrastructure with parallel testing, reducing test execution time from 30 minutes to under 10 minutes while improving reliability
- Enhanced pull request workflows with automated test reporting and quality checks, leading to faster code reviews and fewer production issues
- Led systematic code refactoring initiatives that improved maintainability and reduced technical debt across key services

Technical Lead

Bangalore, India

LeadSquared

Sep 2013 - Oct 2018

- Architected and implemented a scalable lead search system using Elasticsearch and SQL stored procedures, enabling complex filtering across multiple parameters including demographics, behavior, and engagement metrics
- Architected a multi-tenant database optimization solution that automatically identified and cleaned up inactive tenants, reducing infrastructure costs by 35% and improving system performance
- Designed and implemented a secure, public-facing REST API with token-based authentication, rate limiting, and comprehensive documentation, serving 1M+ requests per day

EDUCATION

B.E. in Information Technology

Bhopal, India

RGPV

Aug 2009 - Jun 2013