Eshwar Koka

Engineering Lead · Backend Development · Distributed Systems · Cloud-Native Architectures
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Summary

Engineering Lead with 7.5+ years of experience in backend development, distributed systems, and cloud-native architectures. Deep expertise in Python and AWS, building scalable, high-performance services across multiple start-ups.

Skills

Programming & Frameworks: Python · Flask · Django · JavaScript · TypeScript · Node.js · NestJS · GraphQL
Databases: MySQL · PostgreSQL · SQLite · MongoDB · Couchbase · Amazon DynamoDB · Redis · RDS
Cloud & Infrastructure: AWS IAM · EC2 · Lambda · Fargate · S3 · ELB · VPC · Route 53 · EBS · EFS · CloudFront
Containerization: Docker · Kubernetes · ECS · EKS · Pulumi · Terraform

Experience

Circuitry — Engineering Lead
2024-April – Present
- Lead a 7-engineer backend team owning 80 AWS Lambda services and a FastAPI agent service serving 10K+ daily users.
- Led end-to-end distributed tracing (OpenTelemetry, W3C Trace Context, Datadog) across 3 teams and 70 AWS Lambdas.
- Reduced API latency by 90% (from 30 to 3 seconds) through system architecture optimization and performance tuning.

Hoichoi (Client of CAW Studios) — SDE-2
2023-September – 2024-April
- Developed backend core APIs using GraphQL for OTT platform serving 1M+ users, improving response times by 40%.
- Technologies: TypeScript, NestJS, NX, MongoDB, GraphQL, ECR, ECS, Terraform.

Flip Spaces (Client of CAW Studios) — SDE-2
2022-November – 2023-August
- Built backend APIs for construction/interior design platform, handling 50K+ daily transactions with 99.9% uptime.
- Optimized database queries using Couchbase DB, reducing response times by 35% and improving system performance.

Jio Haptik (Client of CAW Studios) — SDE-2
2020-April – 2022-October
- Architected conversational AI chatbots using Django, handling 1Cr+ messages with 99.5% delivery success rate.
- Integrated Haptik system with WhatsApp and Salesforce, increasing message delivery efficiency by 25%.

CAW Studios — SDE-2
2020-March – 2024-April
- Built Slack Bot integrating Slack Workspace with Google Calendar, automating leave applications for 500+ employees.

Franklin Templeton — Graduate Trainee Technology
2018-June – 2019-June
- Developed automation test scripts using Python, reducing manual testing time by 60% for India Digital Eco project.

Projects

Real Time Sentiment Analysis on Movie Reviews — Machine Learning, Python, Web Crawling, IMDB, Classification
- Developed web crawler for IMDB website that scrapes movie reviews and classifies them as positive or negative with overall score generation. GitHub: github.com/eshwarkoka/sentiment_analysis_on_movie_reviews

Text Classification on Medical Dataset — Machine Learning, Python, NLP, Text Processing, Classification
- Identified and removed multi-label documents to consider only single-label documents with preprocessing steps including stopword removal and stemming. GitHub: github.com/eshwarkoka/Medical-document-classification

Education / Certifications

Education: BE Computer Science, Chaitanya Bharathi Institute of Technology, Hyderabad, India (2014-2018), CGPA: 8.14/10
Certifications: AWS Certified Solutions Architect Associate