

Santosh Koti

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Profile

Senior Staff Software Engineer with 15+ years of experience designing and scaling cloud-native distributed systems. Proven expertise in architecting large-scale microservices, leading engineering teams, and mentoring senior engineers to Staff level. Recognized for driving technical excellence that improved reliability, reduced latency, and accelerated product delivery across multiple organizations.

Technical Expertise

- **Programming Languages:** Golang, Rust, Java, Python, JavaScript
- **Databases:** MySQL, PostgreSQL, SQLite
- **Infrastructure & Distributed Systems:** AWS, Kubernetes (Operators), Docker, Terraform, Pulumi, Consul, Redis, Kafka, Elasticsearch, NATS, GRPC
- **Observability:** OpenTelemetry, Prometheus, Grafana, Loki, Tempo
- **Applied AI:** AI Agents, LLMs, AWS Bedrock, Vector DB
- **Web Technologies:** HTML, CSS, JavaScript

Education

Bachelor of Engineering (Computer Science)

Skills & Abilities

- Microservices, Cloud-Native Architecture & Distributed Systems
 - System Design & Architecture
 - Performance Optimization & Scalability
 - DevOps & Infrastructure Automation
 - Technical Mentorship, Design & Code Reviews, Collaborations
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Experience

Senior Staff Software Engineer

Fanatics | June 2018 – Present

- Content Platform & Experimentation
 - Designed and implemented delta content-publication for 1000+ Fanatics-managed websites for efficient refresh of prod facing in-memory distributed cache (custom)
 - Designed & implemented namespace feature based experimentation to control the experiment's user-space allocation & rollout the experience to all 1000+ sites
 - Ensured high availability and uptime of content-data APIs across all Fanatics sites.

- Improved content management, scheduling, and experimentation across all websites.
- Data Pipelines: Search, Indexing & Reporting
 - Designed & implemented pipeline for indexing Japanese sites to Algolia supporting all 3 dialects/character-sets
 - Designed and implemented data pipeline for reporting using parquet & arrow libraries
- CRM
 - Developed Golang based SDK for SFMC (*salesforce*) based email delivery
 - Enhanced email campaign-targeting capability by building a custom expression evaluation capability (*based on planout lang*)
- Performance Optimization
 - Optimize large DB queries (*including GraphQL generated*), transaction blocks, resolved DB deadlocks, segregated DB read & write queries to respective replicas
 - Reduced Elasticsearch Index size and optimized re-indexing times.
 - Distributed in-memory content cache optimizations
- Infrastructure
 - Migrated application infrastructure provisioning to the latest Terraform version.
 - DB Upgrades (*major versions*) with terraform
- Miscellaneous
 - Production support, Mentorship, design and code reviews, prioritization & planning, cross team collaboration & communications, unblocking teams on technical issues

Technologies: Golang, Typescript, C#, AWS, Consul, Kafka, Elasticsearch, REST APIs, GraphQL, MySQL, Postgres, Terraform

Senior Software Engineer

Visa | Jan 2018 – June 2018

- Implemented monthly/yearly settlement report generation using HDFS.
- Migrated calendaring logic from shell scripts to Go-based components.
- Created Cucumber-based acceptance test cases and Scala-based unit tests.

Technologies: Golang, Scala, Kafka, HDFS, FSM, Ansible, Jenkins, Nomad, Cucumber, Shell Scripting.

Senior Software Engineer

Continental | May 2017 – Jan 2018

- Developed REST and gRPC APIs in Golang for car-key provisioning and lifecycle management.
- Implemented error code refinement for public-facing APIs.
- Created a Golang-based load testing tool, optimizing API performance.
- Authored RCK API spec using API Blueprint for external documentation.

Technologies: Golang, Protocol Buffers, gRPC, Microservices, PostgreSQL, Docker, Kubernetes, AWS.

Senior Software Consultant

Google | June 2016 – May 2017

- Implemented Corp SSO for PrintCentral to integrate with Google's internal APIs.
- Integrated internal APIs using Google RPC framework (Stubby).
- Developed ETL pipelines for asset management and hosting information queries.
- Integrated with GUTS (Google Unified Ticketing System) and Corp APIs.

Technologies: Python, Django, Memcached, Google Cloud, Google App Engine, Angular.

Senior Software Consultant

Equinix | June 2014 – May 2016

- Designed and migrated ECX into a microservices-based architecture.
- Developed SDN workflows using OpenDaylight APIs.
- Built Java/Spring Boot services for NOCC and NodeJS microservices for ECX.

Technologies: Java, Node.js, Spring Boot, REST APIs, SQL, Swagger, AngularJS, Hibernate.

Senior Technical Consultant

Intel, Bangalore | May 2013 – Jan 2014

- Led development for sensor data processing pipelines and IoT device management.
- Designed notification services for SMS, email, HTTP, and ActiveMQ alerts.
- Created visualization dashboards for sensor-data rendering.

Technologies: Java, Spring, Apache Camel, MongoDB, Thymeleaf, MySQL, JavaScript, JSON.

Senior Software Engineer

MusicPolo, Bangalore | Dec 2010 – Apr 2013

- Designed and implemented core infrastructure for a scalable online music portal.
- Developed REST APIs, custom load balancer using Akka actors & Play framework.

Technologies: Scala, Play Framework, Akka, MySQL, Zurb Foundation, JavaScript, JQuery

Member of Technical Staff

VMware, Bangalore | March 2008 – Dec-2010

- Developed SaaS platform services for ITIL and Compliance-as-a-Service applications.
- Integrated automated OS provisioning with VMware's vSphere API.

Technologies: Java, J2EE, REST APIs, VMware vSphere API, Python, C++.

Technical Specialist

Infosys, Bangalore | Nov 2003 – Feb 2008

- Led J2EE framework benchmarking and in-house profiler development.
- Provided architectural recommendations for Web 2.0 & RIA initiatives.

Technologies: Java, Web Services, AOP, Adobe Flex, J2EE Frameworks.