

Prasad Ekke

Senior Principal Software Engineer – Distributed Systems | Cloud | Security | C++ | Go | Rust

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Professional Summary

Senior/Principal Software Engineer with 20+ years of experience designing and scaling distributed systems, cloud infrastructure, high-performance C++/Go services, and large-scale security platforms. Extensive experience in end-to-end system design and major system redesign initiatives. Proven impact at Meta (Facebook UK), Broadcom/Symantec, and Amazon. Specialized in building high-throughput backend systems, cost-optimized cloud architectures, and enterprise security products (CASB, DLP). Experienced in technical leadership, system redesign, performance optimization, and mentoring.

Seeking roles in distributed systems, cloud infrastructure, performance engineering, cybersecurity platforms, or large-scale backend systems.

Competence Profile

- **Distributed Systems Engineering:** End-to-end system design, redesign, large-scale backend architecture, high-throughput pipelines, platform scalability.
- **Cloud & Infrastructure:** AWS, GCP, Kubernetes, container orchestration, cost optimization, multi-tenant architectures, reliability engineering.
- **Systems Programming:** C++, Go, Rust expertise; performance-critical services; profiling, debugging, memory/CPU optimization.
- **Security Engineering:** DLP, CASB, content inspection, data protection pipelines, endpoint architecture.
- **Leadership:** Technical direction, mentoring, architectural decision-making, cross-geo collaboration.

Core Skills

- **Languages:** C++, Go, Rust, Python, Java, C, C#, JavaScript (basic)
 - **Distributed Systems:** High-throughput pipelines, remote execution, cloud-native services
 - **Cloud:** AWS (EC2, Lambda, Kinesis, SQS, S3, Redshift), GCP, Kubernetes
 - **Security:** CASB, DLP, content inspection, data protection, threat mitigation
 - **Performance:** Large-scale optimization, storage efficiency, memory & CPU profiling
 - **Other:** gRPC, Thrift, GraphQL, Redis, Postgres, SQL Server, Redshift
 - **Tools:** Visual Studio, XCode, GDB, WinDbg, Grafana, CI/CD, container ecosystems
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Professional Experience

Broadcom (Symantec Enterprise Division) – Pune, India

Sr. Principal Software Engineer | Jul 2022 – Present - Led storage-layer optimization for CASB platform; eliminated ~90% redundant data (hundreds of TB), improving reliability and reducing cost. - Designed efficient write-access patterns across the distributed system, reducing risk and increasing

throughput. - Drove major GCP cost-optimization initiatives: reduced cluster counts, introduced local Redis pod architectures, trimmed pod CPU/memory footprints. - Improved logging framework to preserve near-100% log fidelity independent of verbosity settings. - Stack: **Go, Python, gRPC, Kubernetes, Redis, GCP**.

Meta (Facebook) – London, UK

Software Engineer | Nov 2020 – May 2022 - Built multi-language clients for Facebook's Remote Execution platform, enabling load balancing, batching, and smart API selection. - Supported **1B+ daily actions** (1.6B peak) with significant performance improvements: 2× faster builds, 10× faster instrumentation tests. - Critical contributor to Buck2 integration and scaling. - Stack: **C++, Rust, gRPC, Thrift**, distributed infra.

Amazon (AWS ElastiCache) – Pune, India

Sr. Software Engineer (SDE III) | Jul 2020 – Oct 2020 - Led security improvements for Redis/Memcached clusters inside ElastiCache. - Mentored engineers, handled code reviews, improved internal server hardening. - Stack: **AWS, Python, security infrastructure**.

Symantec Corporation – Pune & San Francisco, USA

Sr. Principal / Principal Engineer | 2012 – 2020 - Architected and scaled Symantec's Cloud DLP platform on AWS, supporting multi-tenant high-availability architectures. - Developed unified data aggregation pipelines enabling analytics, ML model generation, and real-time reporting. - Led teams across infra modernization, endpoint security, protocol parsing, data extraction, and platform redesign. - Stack: **AWS, C++, Boost, GraphQL, Redshift, Postgres, Flink, Linux, Windows, Mac**.

Symantec / BindView – Pune, India

Software Engineer → Sr. Software Engineer | 2005 – 2012 - Ported critical DLP agent components to Mac, designed network parsing frameworks, enhanced content scanning engines. - Implemented SQL Server auditing, improved performance by 30%, added support for new data models. - Stack: **C++, Win32 API, OpenSSL, SQLite, Java, C#, SQL Server**.

Patents

- Monitoring Network-Based Printing for DLP – US 13/453,214
- Method and Technique for DLP from Virtualized Applications – US 13/048,786

Education

Bachelor of Computer Engineering – PICT, Pune University (First Class with Distinction)
Diploma in Computer Technology – MSBTE (First Class)

Certifications

Generative AI Leader Certification – Google
Professional Cloud Architect - Google

Credly profile: <https://www.credly.com/users/prasad-ekke/badges/credly>