SOURAV CHANDRA

Cloud Architect | 20+ Years of Experience Designing Scalable, Secure Cloud-Native Systems

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Cloud Architect with over 20 years of experience designing, building, and scaling secure, high-availability platforms across product-driven and enterprise environments. Proven expertise in cloud-native architecture, distributed systems, and data-driven platforms, with hands-on experience across GCP, microservices, event-driven systems, and API-based integrations. Strong background in translating business and product requirements into robust technical architectures, developing proof-of-concepts, and refining system designs to support scalability, performance, and security. Experienced in mentoring engineering teams, establishing engineering best practices, and improving code quality through structured review processes.

CORE COMPETENCIES

- Core Java, Multithreading, PHP
- Redis, Memcached
- Kafka, RabbitMQ
- Google Cloud Platform
- Cloud Architecture & Design
- Scalable & Distributed Systems
- Cloud-Native Application Development
- Microservices & Event-Driven Architecture
- API Design & Integration
- Performance Optimization & Monitoring
- Security, Reliability & High Availability
- Proof of Concept (POC) Development
- Data & Analytics Platforms
- Stakeholder Collaboration & Requirement Translation
- Engineering Standards & Code Review Practices
- Technical Mentoring & Team Development

PROFESSIONAL EXPERIENCE

Director, Engineering | Vimeo **Aug 2011 – Jan 2026**

- High-Volume Analytics Infrastructure: Architected a scalable, real-time analytics platform utilizing Scala, Kafka, and Akka. and Google BigQuery, enabling the processing of over 1 billion events per day with sub-second ingestion latency. Optimized BigQuery slot utilization and partitioned tables, resulting in a 40% reduction in query latency and significant cost savings on data warehousing.
- Real-Time Monetization Systems: Led the architectural design of the Livestream Donations feature utilizing Java and concurrency. Implemented low-latency state management and secure transaction flows to support real-time viewer contributions during peak concurrent global broadcasts.
- Serverless API Design: Developed and deployed public-facing Livestream APIs using a GCP Serverless stack (Google App Engine, Cloud SQL, and Cloud Tasks).
- Resilient Asynchronous Workflow: Designed a decoupled, asynchronous workflow system using RabbitMQ and Redis. This architecture ensured 99.9% delivery reliability for mission-critical notifications (Email/SMS) along with other auxiliary jobs like tracking, scheduled post, digest post, facebook notifications.
- Lead Generation Architecture: Engineered a high-availability Lead Capture solution for live and VOD events. Leveraged cloud-native queuing to ensure zero data loss during massive audience surges, directly contributing to a 25% increase in lead conversion for business stakeholders.
- Architectural Strategy & GCP Modernization: Translated complex business requirements into scalable, cloud-native architectures. Spearheaded the migration and optimization of legacy workloads onto Google Kubernetes Engine (GKE) and Compute Engine (GCE), improving system reliability to 99.9% and reducing infrastructure overhead by 25%.
- Rapid Prototyping & Product Innovation: Partnered with PMs and designers to deliver secure, scalable solutions from concept to production. Leveraged Google App Engine (GAE) for rapid deployment of early-stage POCs, accelerating "time-to-market" for new product features by 30%.
- Cross-Functional Alignment: Drove multiple engineering initiatives by bridging the gap between technical execution and business goals, ensuring 100% alignment on feature specifications and long-term product roadmaps across 5+ global stakeholder groups.
- High-Performance Web Scaling: Led the technical redesign of the Vimeo Profile page, optimizing MySQL query execution and implementing multi-layer caching with Memcached. These optimizations improved SEO crawlability and reduced page load times by 35%, directly increasing user discoverability and engagement.

- Real-Time Product Innovation: Developed the Vimeo Webinar product during COVID, integrating Google Firebase Realtime Database to power live interactions, such as Q&A and chat.
- AI Innovation: Ideated and drove innovation to incorporate agentic AI workflow to create automated categorized video showcases, smart suggestions.
- Code Quality & Mentorship: Established structured PR review standards and authored a Comprehensive Review Handbook, which reduced post-release bugs by 20%. Led regular architectural alignment sessions to mentor Engineering Managers and developers, fostering a culture of continuous knowledge sharing.
- Process Maturity: Improved engineering velocity by implementing standardized CI/CD pipelines and automated testing frameworks, resulting in a 15% increase in deployment frequency without compromising security or stability.

Software Developer | Nokia Siemens Networks **Apr 2009 – Aug 2011**

- Distributed Systems & Agent Engineering: Designed and developed high-performance management agents deployed on large-scale distributed network elements to collect real-time operational and performance data. These agents supported a centralized management platform (@vantage Commander), enabling the monitoring and lifecycle management of thousands of mission-critical telecom assets.
- Module Ownership & System Reliability: Served as the primary technical lead for the Performance Monitoring agent, overseeing the end-to-end stability and data integrity of the system. Acted as a key technical point of contact for global telecom operators, resolving complex production issues to maintain 99.9% uptime in high-pressure environments.

Software Developer | Sasken Communication Technologies Ltd **Aug 2005 – Dec 2007**

- High-Concurrency Systems Engineering: Developed and optimized IP Multimedia Subsystem (IMS) and Diameter billing solutions using Java. Leveraged Java Concurrency (Executors, Thread Pools) to manage high-throughput traffic across packet and circuit-switched networks, ensuring the low-latency performance required for carrier-grade, high-availability telecom environments.
- Module Ownership & System Debugging: Served as the primary technical lead for Diameter billing and RfCache components. Investigated and resolved complex production issues and customer-reported defects, maintaining the integrity of mission-critical billing systems for global partners like Nortel Networks.
- Test Automation & Technical Leadership: Architected enhancements for the Diameter Injector tool, implementing a command-line interface to enable automated CI/CD workflows. Collaborated directly with cross-functional stakeholders and customers to translate technical requirements into executable code and support successful production deployments.
- Technical Ownership & Stakeholder Impact: Served as the primary technical lead for mission-critical configuration modules, collaborating directly with Alcatel-Lucent stakeholders to align engineering delivery with global operator requirements. Enhanced the system simulator GUI to improve validation efficiency, contributing to a 25% increase in testing coverage and earning a Client Appreciation Award for consistent technical excellence and project delivery.

EDUCATION

Bachelor of Technology (B.Tech) – Electronics and Communication Engineering **Year 2005**
National Institute of Technology, Durgapur | Durgapur, West Bengal, India
GPA: 79.9% | First Class with Honours

Higher Secondary Education **Year 2001**
West Bengal Council of Higher Secondary Education (WBCHSE)
GPA: 85.9%

ACHIEVEMENTS

- Earned multiple recognitions, including Spot Awards, Client Appreciation, and Company Bonus, for technical excellence and delivery impact.
- Served as a trusted technical point of contact for customers and stakeholders across telecom, streaming, and SaaS product environments.