Soham Dasgupta

Technology Leader | Cloud Architect | Distributed Systems Expert | Principal Software Engineer LinkedIn | +91 7702195678 | soham@thesobercoder.in | GitHub | StackOverflow | Certifications | Portfolio

Summary

Distinguished Principal Software Engineer and cloud architect with 15+ years of experience architecting and delivering enterprise-scale distributed systems. Proven track record in designing high-availability cloud architectures serving Fortune 500 clients. Deep expertise in AWS cloud architecture, microservices design, and enterprise financial systems. Demonstrated success in leading strategic technical initiatives, driving cloud adoption, and establishing architectural governance frameworks. Known for mentoring teams, fostering innovation, and delivering mission-critical projects while maintaining stringent security and compliance standards.

Skills

- Al/Emerging Technologies: OpenAl API, OpenRouter, Vercel Al SDK, o3-mini, GPT-4o, GPT-4o-mini, Claude Sonnet-3.5, Model Context Protocol
- Cloud & Infrastructure: AWS CDK, CloudFormation, Lambda, Fargate, DynamoDB, SQS, EventBridge, SES, RDS, Cognito, CloudWatch, High-Availability Architecture
- Architecture & Systems: Microservices, Distributed Systems, Event-Driven Architecture, High-Scale Service Design, Multi-tenant Architecture
- Security & Compliance: OWASP Security Standards, Token-based Authentication, AWS Cognito, Multi-tenant Architecture, WAF Configuration
- · Financial Systems: Lessee Accounting, Lessor Accounting, Emission Accounting, Multi-tenant Financial Platforms
- Engineering Leadership: Technical Mentorship, Architecture Governance, Engineering Excellence, Team Development
- Backend & APIs: C#, .NET, Node.js, REST, GraphQL, gRPC, OIDC, JWT, SAML
- Frontend & UI: TypeScript, React, Next.js, Astro
- Version Control: GitHub, GitLab, Bitbucket, Azure DevOps, JIRA, Confluence
- DevOps: Docker, Kubernetes, CI/CD, GitHub Actions, Azure Pipelines, Automated Testing
- Languages: English, Hindi, Bengali All professional proficiency

Experience

Principal Software Engineer | insightsoftware | Kolkata, India (Remote) | May 2023 - Present

- Architected and delivered a cloud-native asynchronous Lessor Accounting platform contributing to \$6 million ARR, leveraging AWS serverless
 architecture with Lambda, DynamoDB, and EventBridge for enterprise-grade reliability
- Engineered a scalable multi-tenant emission accounting platform using AWS Lambda, API Gateway, CloudFront, and DynamoDB, designed to process
 millions of financial transactions for Fortune 500 clients
- Orchestrated end-to-end infrastructure deployment using AWS CDK TypeScript, managing Lambda functions, DynamoDB tables, EventBridge rules, API Gateway, and CloudFront distributions as code
- Served as product group security champion, implementing OWASP-compliant controls including WAF configurations, rate limiting, and comprehensive security measures across all enterprise features
- Designed and implemented a distributed task processing system using **AWS Fargate** and **DynamoDB**, enabling parallel processing of large-scale reports by automatically segmenting millions of lease records into optimized batches
- Optimized large-scale CSV processing implementing Node. js streams with AWS Lambda, significantly improving memory efficiency and processing capabilities
- Successfully migrated legacy authentication system to AWS Cognito with 2FA, enhancing security posture while maintaining seamless user experience
 Led system reliability initiatives through detailed AWS CloudWatch log analysis, providing critical support to QA and professional services teams by
- Led system reliability initiatives through detailed AWS CloudWatch log analysis, providing critical support to QA and professional services teams by
 validating reported issues and ensuring correct system operation for enterprise clients
- Mentored engineering talent through architecture reviews and knowledge sharing sessions, contributing to improved team performance and professional growth
- Facilitated Scrum processes including daily standups, sprint planning, and retrospectives, while maintaining sprint board hygiene to ensure efficient workflow and delivery tracking

Software Engineering Manager | Deloitte | Kolkata, India | Apr 2017 - May 2023

- Directed the development roadmap for an enterprise lease accounting application serving 20+ Fortune 500 companies and various US government agencies, achieving 20% annual revenue growth
- Coauthored a microservice and micro-frontend ecosystem using .NET, gRPC, React, Docker, and Kubernetes, establishing a scalable architecture for enterprise clients
- Developed a distributed background worker using C#, MSSQL, and Service Broker, processing thousands of monthly reporting requests with high reliability
- Developed an enterprise reporting solution delivering 200+ FASB and IFRS compliant reports, ensuring regulatory compliance for major corporations
- · Enhanced software lifecycle processes with CI/CD pipelines, code reviews, and automated testing, significantly improving delivery reliability
- Created an internal parallelization tool that enabled QA to run accounting accuracy tests across 1000+ reports simultaneously, improving validation
 efficiency by over 70%
- Initiated Azure DevOps and Scrum adoption, streamlining workflow while achieving SOC1 compliance
- · Enhanced hiring strategy in collaboration with Talent Acquisition, improving team cohesion and candidate quality
- Expanded the India engineering team, securing top talent and delivering high-quality releases
- Led an intern mentorship program, guiding innovation projects and training sessions
 Empowered junior professionals with career guidance, boosting productivity

Development Lead | EffiaSoft | Hyderabad, India | Mar 2014 - Mar 2017

- Developed a robust REST API backend for a POS application, supporting 3000+ MSME customers with real-time transaction processing and inventory
 management
- Improved multi-tenant enterprise ERP application performance through database and API optimizations, achieving 25% performance boost in core
 operations
- · Implemented a reliable data synchronization system for Android/Windows POS apps with offline capability and automatic recovery
- Developed an Excel-based data import/export utility for efficient bulk data management
- Led requirements gathering with senior stakeholders and implemented key CRM features for a shipping enterprise, ensuring delivery aligned with business specifications

Junior Developer | La Exactlly Software | Kolkata, India | Nov 2009 - Mar 2014

- Contributed to the development of an enterprise payroll application supporting 5000+ employees, implementing core processing modules and calculations
- Improved payroll calculation engine performance, achieving over 70% reduction in computation time through code optimization
- Developed comprehensive salary slip and accounting reports with optimized database queries for better performance

· Implemented new accounting and inventory features for an ERP application, following specifications to enhance client workflows

Education

- Master of Computer Applications | Sikkim Manipal University | Kolkata, India | 2011 2013
 B.Sc. Information Technology | Kuvempu University | Kolkata, India | 2006 2009

Certifications

- MCSA: Web Applications Certified 2018 | Microsoft | (Jul 2018)
 MCSD: App Builder Certified 2018 | Microsoft | (Jul 2018)
 Exam 480: Programming in HTML5 with JavaScript and CSS3 | Microsoft | (Jun 2018)
- Exam 486: Developing ASP.NET MVC Web Applications | Microsoft | (Jul 2018)
- Exam 483: Programming in C# | Microsoft | (Jul 2018)

Recognitions

- Outstanding Performance Award: For architecting a distributed background worker, enhancing user experience and application efficiency. (Dec 2022)
- Outstanding Performance Award: Recognized for timely pivotal release delivery. (Dec 2021)
- Spot Award: For mentorship leading to innovation project victory in 5G/6G technology. (May 2019)
- Spot Award: Contributions to USI engineering operations commencement. (Apr 2017) Performer of the Month: Key role in strategic CRM project delivery. (Feb 2014)