

Somdip Roy

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TECHNICAL ARCHITECT

Experienced **Technical Architect** with 12 + years in application development, security, and cloud infrastructure. Proven track record in telecommunications, manufacturing, and IT services, leading teams of 15+ and managing 22+ applications. Proficient in Java, Spring, Angular, CI/CD, and cloud optimization (AWS). Expertise in SAST, DAST, and VAPT, with certifications in AWS Solutions Architect and DevSecOps.

CORE COMPETENCIES

Application Development and Maintenance: Kubernetes (using Amazon EKS), Java, Spring Framework, Hibernate, Maven
Security and Compliance: Static Application Security Testing (SAST), Dynamic Application Security Testing (DAST), Vulnerability Assessment and Penetration Testing (VAPT, WAPT), REST API Security (JWT, HTTPS, Rate Limiting), SAML Integration, XML Encryption, Java Messaging Service (JMS), Quality Audit Flow (Angular, Spring Boot), UIM Cartridges Development (Eclipse SCE), Security (Spring Security, JWT tokens)
Additional Skills: SSO Migration (Okta to Entra), Full Stack Application Development, CI/CD Pipelines, Software Asset Management (SAM), Hardware Asset Management (HAM), 5G Pre Ready for Construction (Pre RFC), SAP Integration, 5G Material Reconciliation, IEEE 830 and Agile Methodologies

EXPERIENCE

United Phosphorous Limited (UPL) Technical Architect

Mumbai, India
Oct 2022 – Present

- Managed the development and maintenance of applications across multiple domains, including sales, HR, marketing, manufacturing, GRC, and security including optimizing HRMS onboarding processes, improving sales demand forecasting, and increasing safety standards for the manufacturing workforce.
- Managed and mentored a team of 15+ members, overseeing the development, support, and maintenance of 22+ in-house applications across manufacturing, sales, marketing, and HR departments. Coordinated 4 external vendors.
- Reduced business costs by developing applications in-house, including a strategic SSO migration from Okta to Entra, which saved \$300K annually in Opex expenditure. Managed the seamless migration of ~18,000 users, ~200 applications, and ~32,000 devices for multi factor authentication.
- Managed application categorization and execution for modernization using the 6R strategy, including retaining with nominal changes, retiring and removing outdated applications, rehosting to new infrastructures, re-platforming with minimal changes, refactoring to leverage new technologies (e.g., monolith to microservices), repurchasing custom applications with commercial solutions, and completely rebuilding some from scratch.
- Enhanced security by integrating Static Application Security Testing (SAST) with CodeQL at the GitHub repository level for automated code scanning, and implementing Dynamic Application Security Testing (DAST) through server VAPT and application WAPT with manual penetration testing to identify and mitigate vulnerabilities.
- Implemented and optimized CI/CD pipelines using GitHub Actions, leveraging its cross-platform support (Windows/Linux) and self-hosted runner feature to streamline development and deployment processes.
- Enhanced application performance by replacing traditional JDBC calls with ORM, utilizing PAAS services instead of VM/bare metal servers, and measuring improvements through key performance indicators (KPIs).
- Revamped cloud infrastructure architecture in FY 2023-2024, achieving a 15% reduction in cloud computing costs by transitioning from managed VM services to cost-effective PAAS solutions and reducing expenses associated with data center hosting, managed services, and security scanning.
- Successfully implemented and managed Software Asset Management (SAM) and Hardware Asset Management (HAM) processes using ServiceNow Discovery, leveraging agent-based discovery for on-premises and API-based integration for the cloud, creating exhaustive hardware and software asset inventories.
- Led the migration of data and applications from Oracle Cloud Infrastructure to Amazon Web Services, migrating six Oracle servers within one month using the Critical Path Method (CPM) to manage complex integrations and ensure significantly reducing CapEx.

Reliance Industries Limited Development Lead

Mumbai, India
Jul 2019 – Oct 2022

- Implemented and executed 5G Pre Ready for Construction (Pre RFC) flow to ensure integration with SAP services for billing and invoicing, utilizing API-based integration.
- Implemented 5G material reconciliation workflow for site decommissioning, ensuring equipment and services were stored back in inventory and proper invoicing and GST were provided to site owners. Integrated with SAP via Single Sign-On and API calls, facilitating timely rent payoffs and generating compliance reports for audit purposes.

- Successfully deployed 5G WIFI modules in collaboration with Inventory system (Granite), CPNR, and EDA to ensure device connectivity with equipment and ports.
- Implemented and executed the UBR Quality Audit flow, enabling auditors to audit and capture equipment quality in real-time via a web-based application built using Angular and Spring Boot frameworks.
- Successfully identified and addressed both Static Application Security Testing (SAST) and Dynamic Application Security Testing (DAST) vulnerabilities in web-based applications.
- Conducted VAPT (Vulnerability Assessment and Penetration Testing) for server-related vulnerabilities (outdated Java versions, OS versions, DB versions).
- Performed WAPT (Web Application Penetration Testing) to identify HTML injections, SQL injections, and Cross-Site Scripting (XSS) vulnerabilities.
- Enhanced REST API security by implementing signed and encrypted JWT tokens for authentication, ensuring TLS encryption (HTTPS) for data transmission, applying input validation to prevent injection attacks, and enforcing rate limiting to prevent denial of service attacks.
- Strengthened web services security by integrating SAML for authentication and authorization exchanges, applying XML encryption to protect sensitive parts of SOAP messages, and validating XML against defined schema (XSD) to prevent injection attacks.
- Secured Java Messaging Service (JMS) by utilizing SSL and TLS for secure client-broker connections, employing input validation to prevent message injections, and protect data in transit using TLS encryption.
- Implemented Camunda BPM in SiteForge for smooth task transitions by leveraging task management functionalities, enabling message events for external system communications, and utilizing Camunda Cockpit for real-time process monitoring and management.

Accenture India

Pune, India

Senior Developer (Java)

Dec 2014 - Dec 2015, Jan 2017 – June 2019

- Developed and deployed UIM cartridges within the Eclipse SCE environment to streamline reusable rule deployment to the UIM Server, enhancing operational efficiency.
- Drafted comprehensive use cases and designed Software Requirement Specifications (SRS) for a major telecom service provider, ensuring alignment with business needs and technical feasibility.
- Employed IEEE 830 and Agile methodologies for requirements gathering, creating documents with clear objectives and user stories, which clarified business end objectives and streamlined requirements to mock screen level.
- Created and normalized equipment, network, and service models, leading to significant improvements in the system performance and availability.
- Designed and implemented web services for various UIM entities within the Telecom service provider domain using Java, enhancing data exchange and integration capabilities.
 - Utilized technologies such as Java, Spring Framework, Hibernate, Maven, Oracle SQL, and Postgresql.
 - Optimized performance through Spring cache, indexing DB tables, implementing Hikari connection pool, and using @Async annotation for non-blocking operations to increase throughput.
 - Implemented robust error handling with global exception handler using @ControllerAdvice and @ExceptionHandler.
 - Ensured security with Spring Security and JWT tokens, alongside input validations to prevent injection attacks.

Additional employment:

Ericsson Global India Limited, Solution Integrator

2016 - 2016

Wipro Technologies, Software Developer

2012 - 2014

CERTIFICATIONS & AWARDS

AWS Certified Solutions Architect – Associate, Amazon Web Services

Jan 2025 – Jan 2028

DevSecOps Foundation (DSOF), DevOps Institute

Jun 2023 – Jun 2025

Feather In My Cap Award, Wipro Limited

Sep 2013 – Present

Awarded for efforts to stabilize Network Inventory (M6 Application).

Rockstar Award, Ericsson Global India Limited

Oct 2016 – Present

Recognized for achieving high CSAT scores by providing quick resolutions and fixes.