INDER JEET SINGH

SOFTWARE ARCHITECT

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PROFESSIONAL SUMMARY

Software Architect with 17+ years of experience designing, developing, and leading teams to deliver high-performance, scalable products for the software industry. Adept at managing complex projects and driving innovation, with a strong passion for challenging the status quo and fostering growth.

SKILLS

Technical Skills

- Problem Solving & Critical Thinking
- Solution Architecture
- System Integration & API Design
- Programming Languages: Java, C/C++, JavaScript, Objective-C, Perl, Python
- Front-End Development: HTML5, CSS3, Bootstrap, JavaScript, jQuery, AngularJS, React/Redux, D3.js
- Back-End Development: Java, Spring, Node.js, Express, C/C++
- Databases: MySQL, Oracle, PostgreSQL, SQLite, eXtremeDB, Redis
- Web Servers: Apache Tomcat, Adobe Experience Manager
- Operating Systems: Linux Red Hat, Ubuntu, Mac OSX, Windows 10, iOS, Android
- IDEs: Microsoft Visual Studio, XCode, Eclipse, Toad, Sublime Text
- Engineering Tools: Jenkins, CMake, MakeFile, JMeter, Veracode, SonarQube, SourceTree
- Cloud Platforms: AWS, GCP
- Containerization and Orchestration: Docker, ECS Fargate,Kubernetes
- Messaging Systems: Apache Kafka, AWS SQS
- CI/CD: Jenkins
- Performance Testing: JMeter

Soft Skills

- Mentoring & Coaching
- Technical Leadership & Team Management
- Strategic Planning & Roadmapping
- Agile Development & Scrum
- Excellent Communication Skills

EXPERIENCE

Architect | NETMEDS | Chennai, India   2021 – Curr

- Led the development of a Self-Serve Promise Engine, decreasing cart abandonment rates by 10% and reducing shipping costs by 20% through split minimization.
- Designed and implemented a low-latency Inventory Service Platform, handling millions of real-time inventory lookups for B2C and B2B users and providing real-time updates to external integrators.
- Collaborated with and supervised four development teams, successfully implementing an Inventory reservation feature that reduced red orders by more than 90%.
- Designed and implemented Order allocation feature to balance the orders based on operational capacity of the

fulfillment centers, resolving the situation of disabling FC for mitigation done earlier.
- Provided leadership, coaching, and mentoring to all development teams at Netmeds, overseeing application and infrastructure monitoring while ensuring high availability by tracking MTTD and MTTR metrics.
- Planned and executed the migration of B2C tech stack from AWS to GCP, resulting in a 20% cost reduction and improved technical alignment.
- <u>Technologies</u>: Java, Reactive Java, Spring Webflux, Spring Boot, AWS, Docker, Apache Kafka, ECS Fargate

Principal Member Of Technical Staff | ATHENAHEALTH | Chennai, India   2018 – 2021

Authorization Operations Platform
- Spearheaded the platform's successful GA launch, implementing best practices for microservices and significantly improving overall system performance.
- Reduced unit cost by 20% and enhanced developer productivity by implementing a decision microservice for core payer portal determination logic.
- <u>Technologies</u>: Java, Spring Boot, Node.js, React.js, AWS, Docker, Jenkins, Postgres, Thrift, Apache Kafka, EC2/ECS

EOB Data Capture
- Designed the 1.0 Data Model Contract for the as-is transcription of paper-based EOB transactions.
- Designed scalable and highly available microservice to handle 7 million transactions for the EOB based claims.
- Design and coded REST service in an agile environment utilizing a test-driven development approach
- Led a team of 6 high performing engineers
- <u>Technologies</u>: Java, Spring Boot, Node.js, React.js, AWS, Docker, Jenkins, Postgres, Thrift, AWS SQS, ChaosToolkit, Chaos Monkey for Spring Boot, Spring Batch, Drools, S3, EC2/ECS

Computer Scientist II | Adobe Systems India Pvt Ltd | Noida, India   2009 – 2018

- Developed the Adobe Photoshop Fix 1.0 for Android which is now having around 10+ million downloads in Google App Store
- Launched Automatic Perspective Correction in Photoshop Express, contributing to a 7% increase in Creative Cloud subscriptions for the mobile application.
- Developed Real-Time Analytics Executive Dashboard for on-prem customers consuming events from Adobe Analytics Kafka pipeline.
- Led end-to-end PDF export workflow development for Creative Cloud products, including InDesign, Illustrator, and Lightroom, supporting 15 million customers.
- Design and Development of XMP Asset Management and Composition Library and release of public XMP SDK
- Collaborative development with leading Camera Manufacturers to adopt XMP early in post-production workflows
- POC for Collaborative PDF Service and innovative fast updates of the assets in the cloud.
- <u>Technologies</u>: *C, C++/STL, Java, Objective-C, PDF Library, Font Library, Adobe Imaging technology, Adobe XMP technology, jQuery,Javascript, AngularJS, D3.js, Ehcache, Bootstrap*

Senior Software Engineer | Tecnotree | Bangalore, India   2007 – 2009

- Development of a scalable, highly available and real-time, prepaid-postpaid Convergent Charging Platform for service providers.
- Customized and implemented a Charging Platform for an African Service provider, scaling to accommodate 5 million subscribers and 5 million TPH.
- Optimized and implemented a Charging Platform for Emtel-Mauritius, supporting 20 million subscribers and 10 million TPH.
- Design and development of an SNMP based monitoring and alerting agent for the Charging Platform.

- Technologies: *C/C++, Oracle, PL/SQL, OCCI , eXtremeDB(in memory Object Store), Diameter Protocol(RFC 3588/RFC 4006), gSOAP, SNMP*

Software Engineer	Infosys	Bangalore, India	2005 – 2007

- Development of IVOR to BTW Netcool Alarm Interface.
- Development of a Back-end service for a GUI to identify Network Faults during Migration
- Technologies: *Perl, UNIX shell scripting, PL/SQL*

EDUCATION

Bachelor of Technology | National Institute of Technology | Rourkela, India   2001 – 2005

CERTIFICATIONS

Introduction to Data Science | University of Washington   2013
Machine Learning | Stanford University   2013

PUBLICATIONS & AWARDS

Patent 8856216 | Method and Apparatus for Efficiently Performing File Services using Cloud Computing.   2013
Innovation Week Winner: POC for a hacking PDF Collaborative workflow   2012
International Conference on Systemic, Cybernetics and Informatics-2004, Neural Network Based Learning Technique: Application in Intelligent Driving.   2004
Silver Medal National Mathematics Olympiad (senior level)|All India Schools Mathematics Teachers Association   2000

ADDITIONAL ACTIVITIES

Adobe Mentor for Interns in Photoshop Mobile Applications | Adobe | Noida, India   2017
Hackathon Organizer for Photoshop Mobile Application | Adobe | Noida, India   2016

PROFILES

LinkedIn: *https://www.linkedin.com/in/indersr/*