Sapan Bandi

Engineering professional having extensive experience in software product development, technical and solution architecture. Highlights include: designing systems processing with large scale/users, building large distributed systems/cloud-based, applications and overseeing their integration. Able to motivate and guide/mentor top-performing teams. Delivered superior customer service, bridge gap between business & technical implementation; manage offshore developers and cross-functional teams and collaborate with senior management and professional services groups and stakeholders.

♦ Product Development/Strategy/Implementation ♦ Systems Architect and Integration ♦ Enterprise/Database Architecture ♦ Distributed Computing/Big Data Architecture and Management ♦

IMVU

Redwood City, CA   Nov 2017 – Current
Sr Tech Lead/Data Engineer
- Overall Responsible for Managing on-prem hadoop yarn big data cluster (Cloudera) including operational including provisioning, configuration, deployment and engineering management.
- Led the initiative to evaluate and conducted POC on the cloud platform including AWS, GCP and Azure integrating with DataBricks, snowflake for platform migration to cloud providers for various workloads including real-time, batch and analytical. Also, came up with blueprint architecture & integration framework to migrate/port application system using hybrid-cloud approach.
- Supported and re-architect the existing analytical workload based on Hive/Spark jobs and including scheduling, monitoring and general performance optimization. Integrated Data Sources mysql Db (application data), Kafka events streams and third party and performed ETL, aggregation and analytic window query to store final results in mysql and hive data stores.
- Integration with existing on-prem hosted kafka platform for real-time and batch streaming to process and consume the data by performing ETL, aggregation and summary analytics using Spark/Hive/HDFS/Scala and mapreduce framework.
- Developed and integrated all the third party external payment provider data sources for ETL and aggregation and other business processing using Spark/hive. Designed and integrated metadata framework for Job and state management.
- Collaborated with data scientists to design/implement machine learning models for recommendation engine application on AWS cloud platform including transferring data between on-prem and cloud. Also, developed REST API on get and access the results of machine learning results
- Provided solution services to other product teams for validating some microservices architecture and design for new mobile client app backend using kubernetes

IBM

Foster City, CA   July 2015 – Oct 2017
Senior Software Engineer/Tech Lead
- Implemented Application Features using Angular-UI/JavaScript/Struts and Java backend & DB2 on IBM merchandising platform and suite of products using JBOSS/Tomcat/Apache and IBM Message queue service platform
- Architect/designed & implemented data lake & pipeline backend with Spark 2.x platform using Scala, Java, Hive and integrated the ELK stack for application/system logs monitoring.
- Provided technical guidance/mentoring on big data platform and technologies including Hadoop/HDFS/Hive/Kafka etc.
- Performed and Supported Technical integration of BI microstrategy and Netezza backend with web application in Tomcat/JBOSS etc.
- Used the Softlayer/Bluemix cloud platform for deployment/provisioning with Docker container including Docker Swarm and mesos/Marathon (DMM) for scheduling, execution and resource management of different workloads.

Narvar Inc

San Mateo, CA   Nov 2014 – April 2015
Principal Architect/Developer
- Implemented backend SSO solution using Java/REST/OAuth2/Spring security technologies/framework on EC2 AWS platform
- Executed performance enhancement/optimization for Dashboard,reporting & analytical applications using SCALA/Java 8/Postgres/Tomcat and AWS Elastic load balancing.
- Proposed/documented replication solution on top of AWS RDS instance along with prototyping Sqoop/Flume/Kafka spark for real time streaming integration on top of Hadoop/HIVE/HDFS.

Consultant

Redwood City, CA   Aug 2014 – Oct 2014
- Reviewed & prototype Solr/Lucene (Java) integration to provide unified search interface for various web application in the AWS cloud platform. Performance enhancement/optimization for Tomcat 7 based web applications on AWS EC2 Elastic load balancing
- Reviewed and proposed solution for the various PHP based implementation to migrate over to Scalable Java based backend (REST API), service and business logic layer based on Spring 4 framework working with various stakeholders.

POLARIS Wireless

Mountain View, CA   March 2013 – July 2014

Senior Technical Architect:
- Led and managed server side technical Architecture/implementation for Location based engine platform and manage all the Technical, System, Database(Oracle/sql-server) application Architecture including performance optimization/improvements and Private Cloud infrastructure implementation and deployment.
- Design and implemented service oriented based component used for configuration, backend database integration and mobile platform integrating REST based web service API using spring/Java/mysql running on tomcat.
- Designed/prototyped and performed POC of Hadoop based data management solution to be used for Streaming, analytic and batch based location services computation using HIVE/HBASE/mongo-db for large scale data on hadoop platform
- Worked on next generation mobile implementation using Android/Java API and developed backend framework

H5

San Francisco, CA   March 2006 – March 2013

Senior Technical Lead/Architect: Serve as technical architect/Lead on H5 software service platform which provides document review and search services for leading law firms.
- Lead product, system and technical architecture for core Service Delivery/Information Governance platform. Manage all requirements-gathering, business analysis, specifications, design, implementation, deployment, integration & database design.
- Contribute to overall product strategy (internal & external), service delivery platform. Serve as key decision-maker on business & technical decisions including computing ROI, related comparison matrix.
- Developed/ Integrated Rich Client UI (Windows), web application, core search/ rule-based engine on H5 platform featuring document review for litigation, information governance and e-discovery platform.
- Search platform integration on top of Lucene (JAVA) library and hosted with solr front end in private cloud Environment.
- Drove continual improvement to system architecture by refactoring old legacy (Java / Perl / C-based) platform to enterprise-level, scalable C#/Java application integrating various small applications into single unified set of Applications.
- Create, propose, implemented solutions for IT Infrastructure provisioning, cloud computing platform & IGS software platform.
- Manage performance / scalability platform for applications/databases. Measure, capture, developed KPI metrics and continuous improvement initiatives, integration and security solutions.
- Served as design/technical lead for business users, project managers/professional services team customizing solutions tailoring to their business requirements. Guaranteed quality deliverables-execution while managing product release, build, deployment support and upgrades of all products, delivered technical & business support to IT, application support teams
- Reviewed plans, code standards / methodology guiding architecture, design, rationale / rollout to engineering team providing quality implementations, Ensured test plans validation and its delivery

Sr Software Engineer, **CashEdge, Inc.;** San Jose, CA; **Feb 2005 – Feb 2006**
- Orchestrated all technical architecture for critical funds transfer product / hosted-service platform across product lifecycle at this division of Fiserv providing innovative payments and aggregation solutions to financial institutions.
- Design/integrated web-based single sign-on with partner websites using soap based API. Build web-services component in JAVA for partner integration for core web based account management application.
- Designed/implemented presentation-layer framework using MVC design, data-access objects layer boosting access / reusability for Struts-like database access, used design patterns (Session Façade, decorator etc.)
- Performed & managed scalability, performance enhancements/optimization in areas of platform engineering/application/databases, security and system architecture including execution using the various tools/technologies.

Sr. Software Engineer, **Strong Mail Systems;** Redwood Shores, CA; **Aug 2004 - Feb 2005**
Served as senior engineer at firm creating email / web marketing, social media solutions. Analyzed application server. Supported product management, sales & marketing, business development teams to integrate with 3rd-party applications. Crafted, prototyped, rolled-out testing framework for automation / regression test suite based on JAVA. Produced report for production team with deployment / component diagrams, technical presentations, product & design documents.

Sr. Technical Consultant, CA; **Jan 2003 – Aug 2004**
TIVO, Inc.: Analyzed, designed, built prototypes, implemented web services for security-enabled content delivery platform (certificates, XML-based signature/encryption). Integrated with ordering, SAP billing/customer management system running JAVA / J2EE /Tomcat. Revamped, legacy web applications using Struts and integrating with JMS/EJB running on WebLogic 8.x App Server**.**
Covad Communications:
- Led technical architecture design, prototyping, development Struts/Tiles-based web application using EJB web service using Tomcat, Portal Intranet billing System, DSL provisioning, network management. Over-saw the security/JMX monitoring based library implementation and integration/deployment
- Provisioned/Configured Weblogic 7.x /Tomcat 4.x deployment implementation and assisted in replication, clustering, failover, recovery, load-balancing strategy and execution. Handled database fine-tuning, EJB transaction management, garbage collection; performed load, stress, scalability tests.

- Teamed with billing, release, outsourcing, QA teams supporting on multiple applications for development, code review, validation, testing.
- **Won special recognition for implementing/deployment end-to-end solution for legacy to J2EE-based multi tier distributed system.**

Technical Lead / Solution Architect, **Highdeal, Inc.;** Redwood Shores, CA; **Aug 2001 – Jan 2003**
- Led multiple projects, supported upgrades, migration, delivery and rollout. Worked directly with product marketing, executives.
- Produced, customized products: remote management, security, clustering, high availability / optimization for applications, databases. Built web application framework based using Struts (MVC2 design pattern) on J2EE platform.
- Led all pre-sales initiatives: RFP response, POC, technical proposals/presentation/specifications, Quotes, statements of work and performed validations of pricing/rating/billing engine producing extensive customer solutions.
- Helped create product specifications, designed customized solutions, customization of tax management application, Oracle financial integration & other e-business apps using Database/JAVA/C/JNI/Swing and related tools/framework/libraries.

Technical Consultant, **R-Systems/Tekedge** CA**; March 1996 – July 2001**
Provided system architecture/ integration, database design, analyst, implementation consulting services, and led tactical engineering, development, project management for Onlight, Telocity, Alltel Info Services, the Money Store, and Informix.
Senior Technical Lead/Architect, Telocity: Oversaw program management, architecture, design, implementation and deployment. Conducted SDLC to enact enterprise-level, multi-tier distributed back-office OSS management system, and web-based UI real-time LQ. Seamlessly integrated remedy ticketing, portal INFRANET, CRM user interface, service provisioning, ordering and network management. Contributed towards database clustering/tuning, performance optimization, load balancing and recovery process.
Sr. Developer /Analyst, **Birla Consultancy & Software Services;** India; **1992 – 1996**

EDUCATION

BE, Computer Science, **University of Pune;** India; 1992
Training: Project Management Training, Microsoft FAST Search Certification & Training

Special Projects and technology integration/prototype
- Developed and Integrated Java/Python based SCOM integration Application for monitoring and managing various system activities including windows Event log.
- Implemented/Developed topic based clustering/K-means using Spark/MLIB and other classification search technologies on AWS
- Designed, prototyped and implemented the Hadoop based search cluster technology to compute lexicon and other analytical data on AWS
- Developed and integrated Lucene and Microsoft FAST search platform to enhance search capability
- Designed and developed SSIS based Image data loading in the Oracle Database for export delivery
- Developed and designed Analytical Reports based on Crystal Reports/SRRS SQL.
- Integrated JBOSS hosted java web application with Oracle/MYSQL backend to Sales Force Portal using Eclipse/Java 7/Hibernate
- Developed prototyped Hadoop based analytic reporting architecture for marketing/advertising products using Sqoop, Hadoop and Kafka, other related technologies deployed/tested on EC2/Azure platform.