

# Ankur Vatsa

22 years in catalyzing results across BFSI Technology, Product Innovation and Digital Transformation | Delivered large, complex and globally distributed systems for banking and finance technology | Led and coached ~350 engineers with hands on leadership style

## EXPERIENCE

### Nomura, Mumbai — Executive Director (Chief Technology Officer and Architect) | September 2017 - PRESENT

- Digital Transformation Leader, successfully delivered several cloud transformation projects, setup and leading "Innovation Center" (NICe) and introduced number of new digital business propellers on Nomura's Startup Incubator - Voyager 1 & 2 e.g. automated PnL & risk sensitivities explain & adjustments postings, settlement instructions setup from unstructured data, automated review of NDA legal contracts.
- Created RoI based feasibility frameworks for RPA & IPA projects, delivered 210 RPA/IPA bots in 16 weeks, and proposed alternative tools & processes for federated RPA & IPA delivery. Firm wide research, initial discoveries & implementation of emerging technology products are all governed, delivered and democratized through the center.
- Saved \$500k by automating Market Data Commercials - designed and built machine learning oriented work queue management system on Outlook, Invoicing, Demand & Vendor Management, license consolidation, Semantic Sentiment Analysis to determine news of interest from credit profile of given sector & entity, employee longevity predictions.
- Delivered end to end Machine Learning & NLP products - automated Talent Acquisition Recommendations, automated task-queue management on Outlook emails, Conversational UI Frameworks for delivering Chatbots at scale and more.
- Demonstrated capabilities in setting and executing data virtualization & analytics agenda, Architecting enterprise wide, complex events-processing based Data Fabric and Data Marketplace - Snowflake, Kafka, AWS and more. Write exemplar code and boilerplate archetypes that enable fast paced delivery of business capabilities & services.
- Sets technology standards and provides technology architecture governance & engineering leadership for 1000+ software engineers & lead architects. Ensures strategic direction on 'Invest' products, conducts architecture reviews, and creates projects to pioneer emerging technologies e.g. RPA, AWS Cloud, DLTs/Blockchain, Data Science, SRE & DevOps at Scale and more.
- Proposed NFT assessment, recommendation, and trade execution engine as a new-business platform. Architecting and monetizing state of art highly scalable and highly available complex events processing platforms. Hands-on ownership of the platform - features analysis, backlog prioritization, release planning, coding, release, deployment, and operation in production.
- Lead global team of 35+ highly skilled professionals for XVA Technology, delivering technology solutions for XVA Desk - CVA, FVA, MVA, KVA and more.

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## UK work Authorization

- Global Talent Visa Endorsement

## SKILLS

- **Server & Presentation:** Python, C++, Java/JEE, BASH Script, JavaScript, Node.js, React.js
- **Databases & Big Data Stack:** Sybase ASE, SQL Performance Tuning, MongoDB, Elasticsearch, ELK, Redis, RabbitMQ, Hadoop Stacks - HDLC, Yarn, Hive, Spark, Snowflake
- **Middleware & DevOps:** DataSynapse GridServices, Camel, Mule, Data Power XI52 ESB, TFS, Jenkins, SonarQube, Ansible, Vagrant & VirtualBox, Docker, Kubernetes, Kafka, Pulsar
- **Leadership and Management:** Program & project management, Lean / Agile / SCRUM / KANBAN
- **Emerging Technologies:** AWS Cloud, RESTful & Micro-services Architecture, Solidity, Blockchains, Web3 (Hardhat, Truffle, OpenZeppelin), Metaverse

## CERTIFICATIONS

- **AWS Certified Solutions Architect - Professional** #HET465SJDJFE1H38
- **ITIL Foundation**, Simplilearn, Credential# 213248
- **Snowflake Fundamentals**
- **Intellectual Property Rights**, The Indian Law Institute, New Delhi

## LANGUAGES

English, Japanese, German, Hindi

## Encore Capital Group, Gurgaon — Director IT | January 2016 – July 2017

- Owned 'Technology Consolidation' and 'Core Services Automation' strategies, resulting in savings of \$700k in a year and enhanced user experience. Cost based analysis and consolidation of a heterogeneous technical delivery stack, sponsored & led integration of delivery management stack on to unified continuous delivery pipeline with "TFS/VSTS Online", thus enabled Continuous Integration and Continuous Delivery, traceability from requirements till code & defects. Conceptualized and architected automated tests execution engine to leverage VSTS Online (TFS) with CodedUI hosted in MTM repository.
- Established DevOps (ALM, AIS and Operate) to transform IT support and organizational interaction practices, fostering a strong and collaborative work environment while developing robust processes and reporting for improved issue initiation and visibility. Established technology menu, delivery & quality standards and technical debt register to ensure technology standards & best practices are maintained and applied consistently across the organization. Hands-on execution ownership of multi-phased DevOps program for "Proactive Monitoring of Applications", to implement & integrate centralized logging & analysis service viz. Graylog, Kafka & Fluentd.
- Owned "Build for Cloud" strategy and saved \$850,000 p.a., architected and operationalized RESTful Microservices based products and ensured timely & high-quality delivery of cornerstone business applications viz. Bluefin – Payment Interface & Gateway, Self service payments channel, Everest – Media management & storage solution and Cogent – IL Express on AWS Cloud.
- Strategic planning, development, maintenance and production support of high performance and high availability of distributed software across all LoBs viz. CRM – Internal Operations, Legal Operations, Media Capture & Storage, Common Payment Portal, Payment Interface & Tax Lien. Responsible for developing high-level work plans, schedules, estimates, resource plans, budgets and securing approvals for IT project funding as per roadmaps and ensuring work is delivered strictly as per approved roadmaps with few but well discussed and documented exceptions. Lead IT's comprehensive digital transformation with major contributions in aligning the IT strategy, assets, and investments with organizational objectives e.g. prioritizing shortest weighted projects, complemented with Agile delivery methods, established DevOps Culture and pushing forward SOA strategy & Micro-services Architecture.
- Established IT as strategic capability and business partner by maintaining value based business relationships. Optimized technology delivery and operations methodology. Adopted Agile, enterprise DevOps and Cloud Engineering with a flat IT organization.
  - Aligned IT with business disciplines, established customer-oriented operations team accountable to SLAs & metrics, and adopted robust ITIL services and operation metrics e.g., application tiering, published uptime, MTT Resolve, Shift Left Score.
  - Increased release predictability and reduced software delivery cycle from 9-10 weeks to 4 weeks, leveraged optimized DevOps and Agile with global distributed teams. Ensured strong release management & feature driven planning using tools driven metrics collection for value-based feature prioritization with business.

## Royal Bank of Scotland, Gurgaon — Vice President, Fixed Income Technology | Sep 2007 – Jan 2016

- Fast-tracked through roles demanding technical & management capabilities and promoted from enterprise engineering role to include management role and further to oversee global delivery of Interest Rate Derivatives platform and program management for several Dodd-Frank regulatory & market initiatives, including hands on delivery as required. Designed distributed, complex, and globally deployed technology systems for banking & finance, trade lifecycle & pricing.
- As Enterprise Engineer & Architect, crafted and executed a comprehensive SoA strategy & re-architected monolithic Interest Rate Derivatives trading & pricing platform into several standalone & independently releasable business systems & services for Clearing, Transaction Reporting, Brokerage, Credit Check, Market Data Independence. Created reference architectures & exemplars adopted by future enhancements resulting in quick time to market.
- Program managed several key Dodd-Frank regulatory & market leading initiatives viz. Clearing & Affirmations, Collateralized Pricing and SEFs. Engaged leaders across business disciplines to ascertain & prioritize features and develop system, networking, communications, and support solutions.
- Zero defect Migration of global "Derivatives Trading Platform" from Sybase 12.5-SunOS 5.8 to Sybase (ASE) 15.5-Linux in 10 months against scheduled 16 months. Responsible for project planning, tracking, reporting fortnightly achievements & RAID to sponsors and stakeholders, resource projection and management e.g., h/w, environments, engineers, vendor management.
- Owned product roadmap and strategy, features prioritization, release management for Interest Rate Derivatives Trading, Pricing & Risk Analytics platform. Provided technical leadership on large scale complex projects for the platform viz. Fetching live market data from Reuters Market Data Services, Adding Market Risk measures viz. PayOff Matrix, PnL & Risk Attribution, Basis Risk, ISDA Early Terminations matrix, Importing & managing FX Volatilities.
- Lead support team of 15 engineers, own 24x7 incident & situation management, capacity planning, issue prioritization with business & technology leadership, weekly reporting, mentored team to understand issues for best solution. Implemented Code Quality with peer programming & review practice, quality frameworks using SonarQube.

## iSmart Panache, Gurgaon — Technical Lead | April 2006 – September 2007

- Designed, developed, and deployed IT frameworks for multi-switching product Xpedite, C/C++ framework for writing multithreaded RPC Servers and data/transaction replication strategy for high availability of Xpedite product.
- Researched, evaluated, and deployed new technologies, tools, and processes to improve productivity of organization.

## Induslogic, Noida — Lead Technology | March 2004 – March 2006

- Established telecom products team and lead designed, developed & releases several network components for Location Based Services. Grew the team to 12 developers & 3 quality engineers in one year.
- Conceptualized, designed and developed Network Optimization Product (NetOps) to collect network signaling data over GSM A-bis interface & process it, using Location Server to generate network optimization call data records.
- Designed and developed SMLC-Lite (simplified GSM SMLC) to manage location service messages between BSC and LCS entity Position Control Function, developed E5-E12 gateway to abstract SS7 functioning and provide a single interface layer to Position Determining Entity.

**Tata Consultancy Services, Gurgaon — Assistant Systems Engineer | February 2001 - March 2004**

- Analyzed, designed and developed Corporate Actions module, programmed services for SWIFT based communication engine, overnight batches to calculate entitlement, eligibility and tax reconciliation for safe custody accounts.
- Created core automated memory management library solution in C++ that enhanced the performance of the system by 8% on first day and 14% overall, expert in optimizing databases, OLTP queries and C++ code.
- Technology Change Management Prime: Developed tools to increase efficiency and reliability of outcomes in day to day work. Pilot tools into various projects, measure RoI and certify usage of tools as best practice.
- Worked with business leaders in replying to RFIs & RFPs, explaining system workflow to potential clients, measuring and evidencing performance statistics and qualitative coverage of new requirements.

**EDUCATION**

Bachelor of Technology	Faculty of Engineering & Technology, New Delhi, Jamia Millia Islamia	April 1996 - March 2000
Cyber Law - Post Graduate Diploma	Indian Law Institute, New Delhi, Supreme Court Of India	April 2007 - March 2008