

# Anup Katariya

## Director of Software Engineering

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Accomplished technology leader with extensive experience in building and delivering quality software products and services. Established and led several cross-discipline high-performance engineering teams across the globe. Motivate and Inspire teams by setting clear objectives, collaborative environment, measurable goals and self-empowerment. Experienced in agile practices, data-driven decisions and firm believer in prototyping with rapid iterations to achieve team and organization's goals on time and on budget. Have extensive hands-on experience along with exceptional analytical and problem-solving capabilities.

### Core Competencies

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**Distributed Systems | Software Development Life Cycle | Agile Software Development | Resource Management | Product Development | Data Science | Platform and R&D | Performance Engineering | Budget Planning**

### Experience

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#### **Director of Engineering – Platform & Data Engineering**      **03-2014 - Present**

*Integral Development Corporation*

During my long career at Integral I gradually took on various responsibilities, led multiple teams across software development, operations and data engineering. I wore multiple hats including product owner, technical architect, software engineer and project manager.

- **Established a data engineering** team to explore the vast amount of data generated by our trading platform.
- The data science product now offers real time analytics, flow analysis, trading patterns and various reports.
- **Recruited and managed platform team** of software engineers to research, design, develop and deliver Integral's core trading platform and its continuous improvement.
- Successful rollout of new platform based on **microservices architecture** on 3 data centers.
- **15 % increase in average daily volume** on the new platform.
- **Recruited dedicated offshore team** for real time transaction monitoring system.
- **Recruited Dev-Ops team** to automate, scale and orchestrate various platform services.
- Started regular **employee training programs** and other engagements like tech talks.
- Manage remote operations teams like SRE, NOC and DBAs in order to support Integral's award winning 24/7 trading platform.
- Provide comprehensive data center budget and quarterly expenditure plan

#### **Engineering Manager**      **03-2010 – 03-2014**

*Integral Development Corporation*

Design and develop the next generation of high frequency, low latency platform for Forex Trading for Integral. Managed a small team of up to 5 high performance engineers to deliver a very critical project on time. Some of the important characteristics of this new platform are

- **Provide 20x performance** improvement over old platform in terms of actual throughput.
- Redesigned key services from scratch in order to get sub microseconds processing time under high load.
- Design and developed new application framework including entire persistence and messaging service over MongoDB and RabbitMQ. The new framework allowed quicker application development and deployment including performance improvements.
- Developed a new test framework using groovy which helped 200% rise in the number of test cases and more than 70% reduction in test execution time.

#### **Lead Engineer**      **07-2009 – 03-2010**

*Obopay Software*

I was leading a newly formed core platform team for Obopay's payment solutions. I was responsible for hiring and growing this new team, which was responsible for design and development of core infrastructure services.

**Lead Engineer****09-2003 – 07-2009***Integral India Software Development Ltd*

Integral's FX product suite delivers integrated trading solutions that streamline and automate the entire FX trading process, from origination to distribution. I led a team who were responsible for design and development of FXInside Application Server which supports and provides basic services so that different types of products can be configured on top of it.

**Software Engineer****06-2000 – 09-2003***Sungard Securities Processing Ltd*

Played a key role in developing products like Stream Events, Stream Core. All these products were developed in java using J2EE technologies.

**Technical Skills**

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Java, JVM, GC, Performance Tuning,  
MongoDB, Cassandra, MySQL, Oracle, Spring,  
RabbitMQ, JMS, Kafka, Zookeeper, Storm, Spark, AWS,  
Terraform, Elasticsearch, Docker, Gradle, Groovy,  
Jenkins, Ansible, Tomcat, Jetty, Spring, Websocket, Netty,  
FIX Protocol, Protocol Buffers

Micro services, Distributed Computing, Ultra low latency  
architecture,  
Lock-Free programming, Event Source Architecture, TCP,  
UDP, Reliable Multicast

AWS Certified Solutions Architect - Associate

**Education**

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**Bachelor of Computer Science****1996-2000**

PICT, Pune University, India