

Apoorv Kumar | Curriculum Vitae

Objective | Build and manage teams that deliver high impact computer systems.

WORK EXPERIENCE

AUGUST 2017 – PRESENT

Shubh Loans

VP Technology & Founding Team Member

Built the team from 5 full-stack developers to 20 developers and data scientists with varying domains of expertise including analytics, data management, mobile/web apps, security and architecture.

Developed custom SDLCs for different parts of infrastructure ranging from Agile to Waterfall depending on business speed/safety/visibility needs.

Architected and lead the development of a server-less+microservices based horizontally scalable and highly available lending platform that handles thousands of users per hour, millions of users overall and can automatically scale over 10x.

Platform is geared towards automating the entire customer journey starting from customer acquisition (via our source integrations) to underwriting decisions (using an ML based proprietary decision framework) down to document generation and post disbursal collection support.

JULY 2016 – JULY 2017

IMD Technology, Goldman Sachs

Associate, Trading Data Platform

We developed and managed a **real-time trade management system** with sub-100 microsecond response times using *Apache Geode* and a distributed highly-available *Java/Akka* application.

We built a **binary deployment system with configurable topologies** to compile binaries, manage configs and deploy clusters. Data was archived into a **HDFS/Sybase data-lake for reporting & analytics** using *Apache Spark & Kafka*.

MAY 2013 – JUNE 2016

IMD Strategies, Goldman Sachs

Analyst, Asset Management Data Platform

Started and grew the Bangalore core-strat team to 6 strong with recruits from IITs.

Helped develop **DB agnostic high level language** that compiled to DB specific SQL.

Deployed and managed distributed in-memory *MemSQL* RDBMS and *Elastic Search* clusters and developed **Kerberos based authentication and auto-expiring sessions** for them.

Developed **high throughput ETL infrastructure** between *Sybase IQ* (analytics layer) and *MemSQL* (presentation layer).

Developed **guidelines, portfolio rebalancing & trade planning tool** to improve prospective and retrospective analytics on trades for Fixed Income desk.

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EDUCATION

2007 - 09 **Senior Secondary School**

CBSE - 91%

DAV Kota, Rajasthan

2009 - 13 **Bachelor of Technology**

COMPUTER SCIENCE & ENGG

CGPA - 7.87/10

IIT Guwahati

MILESTONES

2009 Rank 1376, IIT JEE

2011 Rank 22, ACM ICPC Regional

2013 Started IMD Core Strategies team in Goldman Sachs Bangalore

2015 Grew IMD Core Strat Bangalore team to 6, largest among London/NY/Blr

2017 Head of engineering at Shubh Loans

2019 Shubh Loans tech team now ~20 strong

PUBLICATIONS

2014 **IEEE VLSI Design and Test 18th International Conference**

Modelling and analysis of wireless communication over Network-on-Chip

SOFTWARE SKILLS

LANGUAGES Java, Python, Java Script, Scala, SQL

SYSTEMS AWS - Redshift, EC2, S3, Lambda, Load Balancer, Batch
Apache - Spark, Hadoop, Geode
Databases- MySQL, Elastic Search, MongoDB, Sybase

PLATFORMS Machine Learning - AWS Rekognition, Google Vision, Tensorflow, Scikit
Visualization - Airbnb Superset, Plotly Dash