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 serverless+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% *D*AV Kota, Rajasthan
2009 - 13	**Bachelor of Technology** COMPUTER SCIENCE & ENGG CGPA - 7.87/10 *I*IT 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** *M*odelling 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