Apoorv Kumar | Curriculum Vitae

Objective | Work on high impact computer systems with steep growth of skills and responsibilities.

WORK EXPERIENCE

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OCTOBER 2014 – PRESENT
IMD Technology, Goldman Sachs
Analyst, GSAM Data Platform

Helped onboard and administer in memory *MemSQL* which **reduced the OTLP times** from minutes to sub-second. Developed a **secure auto-expiring token based authentication** on Kerberos V5 to access non-kerberized DBs. Developed **high throughput streaming** infra between *Sybase IQ* and *MemSQL*. Deployed *Elastic Search* to **ingest raw legacy logs for search and visualization**. Developed **load balancing & throttling algorithm** based on historical load stats using *Apache Spark*. Algorithm reduced server crashes 10x.

NOVEMBER 2013 – OCTOBER 2014
IMD Strats, Goldman Sachs
Analyst, Core Strat

First team member in Bangalore with rest of the team spread across NY and London. **Grew the Bangalore unit to 5** over 2 years (larger than NY and London teams). Developed **light-weight event driven triggers** for data availability replacing old polling systems. **Improved data replication latency & throughput** into HA clusters using native Sybase replication and transaction logs. Helped develop **DB agnostic high level language** over SQL for business logic. Migrated team to IMD Tech.

MAY 2013 – SEPTEMBER 2013
IMD Strats, Goldman Sachs
Analyst, Quant Strat

Worked on **guidelines enforcement tool** for trades to follow regulatory/client guidelines for asset classes & risk-return characteristics. Worked on **portfolio rebalancing & trade planning tool** to improve prospective and retrospective analytics on trades.

INTERNSHIPS

MAY 2012 – JULY 2012
Qualcomm India Pvt Ltd, Hyderabad
Linux Platform Team

Developed proprietary **Digital Video Broadcasting driver** (extension of Linux DVB) to leverage strengths of Qualcomm processors on Android. Analyzed microkernels to run on a low power microprocessor to **receive and decode multiplexed data streams** supporting process & memory mgmt, IPC and IO.

EDUCATION

2007 - 09	**Senior Secondary School** CBSE PHYSICS/CHEM/MATHS - 91% *DAV Kota, Rajasthan*
2009 - 13	**Bachelor of Technology** COMPUTER SCIENCE & ENGG CGPA - 7.87/10 *IIT Guwahati*

PUBLICATIONS

2014	**IEEE VLSI Design and Test 18th International Conference** *Modelling and analysis of wireless communication over Network-on-Chip*

SOFTWARE SKILLS

INDUSTRY	Java, Scala, SQL, Bash, Java Script, Apache Spark, Elastic Search, Apache Hadoop, Sybase IQ/ASE, MySQL Cluster, MemSQL, Kerberos, Linux
ACADEMIC	C, C++, Python, VLSI, SystemC

ACHIEVEMENTS

2009	Rank 1376, IIT JEE
2011	Rank 22, ACM ICPC Regional
2013	Started IMD Core Strat team in Bangalore

COURSES

MATHS	Discrete Mathematics, Theory of Computation, Formal Languages
CS	Operating Systems, Compilers, Databases, Distributed Computing, Wireless Networks, Communication networks, Compilers OOP, Software Engg., Advanced Computer Arch.
ECON.	Macro Economics, Capital Markets, Algorithmic Game Theory, International Economics