Karan Agarwal

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"I am a techie who loves to build high-performance teams that solves complex problems while paying attention to performance, cost, scalability, and maintainability."

Experience

Sep' 20 - Present — **Engineering Manager**, *HighLevel, US*, (Remote from India).
- Optimized infrastructure to save $1M+ in cloud costs
- Re-configured ElasticSearch to increase throughput by 500%, decrease cost by 75% and reduce average sync latency from 250s to 500ms for 600M writes a month
- Implemented a live sync service from Firestore to MongoDB which processes 250M events a month with sub 100ms average delay
- Architected the database policy for MongoDB. Split data across 4 clusters based on size, sharding need, frequency of use, budget, memory and backup requirements to host 5+ TB of data.
- Designed the events messaging queue to send 1B+ event notifications to 10+ internal services filtered by a custom query language.

Jan' 20 - Aug' 20 — **Tech Lead**, *Stealth mode Startup, US*, (Remote from India).
Health and Wellness Industry

2017-2019 — **Founder and Lead Developer**, *Stealth mode Startup*.
- 400k MAUs
- Recommendation System that daily generates recommendations from 100M+ data points and serves them under 100ms
- Lightweight - Google Pagespeed Insights score of 95 on Mobile and 98 on Desktop
- Full Rich Text editor Prosemirror

2017 — **Backend Developer Intern**, *VStv.io*.
Joined VStv as a Backend Developer Intern

Technical Skills

Languages	JavaScript
Frontend	React.Js, Vue.Js
Backend	Node.Js, Docker, Kubernetes
Databases	MongoDB, Firestore, ElasticSearch, Redis
MessageQueue	Pub/Sub (GCP)
Cloud	Google Cloud Platform, Digital Ocean

Education

2015–2019 — **B.Tech**, *The LNM Institute of Information Technology*, Jaipur, *CGPA − 9.0*.
Computer Science and Engineering

2013–2015 — **XII**, *St. Xaviers Sr. Sec. School* , Jaipur, *Agg − 87.20*.

2008–2013 — **X**, *St. Xaviers Sr. Sec. School* , Jaipur, *CGPA − 9.6*.

Awards and Achievements

Merit.
Scored a CPI 9.80 in core CSE subjects.

NTSE Scholarship.

Selected in National Talent Search Examination (NTSE) and rewarded with the NTSE Scholarship.

Gold Medalist.

Selected in Technothlon (twice in a row securing AIR 28 and 35 in the years 2012 and 2013 respectively) conducted by IIT Guwahati and attended Techniche (The Annual Techno-Management Festival of IIT Guwahati) for the same.

Runner Up.

Team member of Dougeldyne Astrosystems and Flechtel Constructors which participated in the 10th Annual Asian Regional Space Settlement Design Contest and bagged Runners-up position.

Honorable Mention.

Team Member of Team Empyrean and Team The Ether Explorer, both of which made projects for the Space Settlement Design Contest held by NASA Ames Research Center and bagged Honorable Mention from the same.