

AMAN MANGAL

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INDUSTRY	Hypermode Inc (Dgraph Labs), Remote (Jaipur, India)	[Nov'22 – Present]
EXPERIENCE	Staff Software Engineer (Mentor: Gajanan Chinchwadkar, Ryan Fox Tyler) <ul style="list-style-type: none">■ Added support for unique constraints in Dgraph to improve data consistency and reliability■ Created the dgraphtest package to make it easier to write integration and chaos tests■ Led the development of a distributed data import protocol for Dgraph on Hypermode Cloud, including design of ingestion flow, sharding logic, and fault-tolerant processing■ Took initiative in simplifying testing workflows, regularly mentoring junior engineers and helping them get unblocked during implementation and debugging■ Regularly balanced priorities between long-term architectural goals and short timelines Arista Networks, Remote (Jaipur, India)	[Sept'20 – Nov'22]
	Software Engineer (Mentor: Prateek Nigam, Amod Dani) <ul style="list-style-type: none">■ Managed the Zero Touch Provisioning (ZTP) package for onboarding devices to CloudVision Portal (CVP), working across feature development, bug fixing, and test improvements■ Facilitated support for ZTP as a Service (ZTPaaS) in CVaaS, from planning to production rollout, working closely with cross-functional teams to ensure timely delivery■ Implemented a gRPC service to issue ownership vouchers per RFC 8572, enabling secure ZTP onboarding in a completely untrusted environments Dgraph Labs, Bengaluru KA, India	[Feb'19 – Apr'20]
	Senior Software Engineer (Mentor: Manish Jain) <ul style="list-style-type: none">■ Enabled background computation of indexes in Dgraph, allowing new mutations to proceed without blocking and ensuring correctness across all mutation paths■ Added support for Upserts and Multiple Mutations in Dgraph's query language ((<i>DQL</i>))■ Served as a founding engineer of the Bengaluru team and helped scale it to over 15 members, playing a key role in onboarding and mentoring new hires Zeotap, Bengaluru, KA, India	[Apr'17 – Jan'19]
	Senior Software Engineer (Mentor: Sathish K S) <ul style="list-style-type: none">■ Built, optimized, and stabilized data pipelines using Spark and Oozie to push data to Aerospike and Amazon Redshift, ensuring consistency even under partial failures■ Implemented an in-memory columnar database in Go for a low-latency analytics usecase■ Designed a revenue attribution algorithm over multi-source datasets with correctness	
EDUCATION	Georgia Institute of Technology, Atlanta, GA, USA	[Aug'14 – Jun'16]
	MS in Computer Science (Specialization: Systems), GPA 3.71/4	
	Indian Institute of Technology, Bombay, India	[Aug'10 – Jun'14]
	B.Tech. (Hons.) in Computer Science & Engineering, GPA: 8.54/10	
HOBBY	BigQueue (https://github.com/grandecola/bigqueue)	
PROJECTS	<ul style="list-style-type: none">■ Inspired from Java BigQueue, built an open source (MIT License) embedded, fast and persistent queue written in pure Go using memory mapped (mmap) files Zscaler - Hackathon @ Zeotap (https://tinyurl.com/zscaler-hackathon) <ul style="list-style-type: none">■ Replaced an external service (Spotinst) used to scale AWS Elastic Map Reduce (EMR) clusters with spot nodes by a custom built service saving more than \$50K/year	
ACADEMIC	<ul style="list-style-type: none">■ Secured All India Rank 70 in IIT JEE 2010 and All India Rank 256 in AIEEE 2010	
ACHIEVEMENTS	<ul style="list-style-type: none">■ Stood amongst top 1% students in Indian National Physics Olympiad, 56th in National Science Olympiad (NSO), 7th in second round of Indian National Mathematics Olympiad■ Selected for Student Exchange Program and completed Spring semester 2011-12 in Nanyang Technological University (NTU), Singapore	