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*I have designed and built horizontally scalable, distributed back-ends on top of RESTful API services; MySQL and NoSQL data-stores, running applications written in Java, Python, NodeJS and PHP. I have headed engineering teams for two startups, where I created and organised engineering teams, established engineering processes, and built tech stacks from ground up.*

## EXPERIENCE

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### Google

#### Senior Software Engineer

since September '21

As the TL for Google Cloud Storage Capacity Planning team (Hyderabad), my primary responsibilities include owning and delivering team OKRs, improving team's efficiency, and reducing technical debt.

- I designed and implemented resiliency improvements to parts of the core infrastructure, which eliminated a subset of failures.
- I identified conceptual inconsistencies in the legacy code and proposed fixes. The solutions were designed to be backward-compatible without migrating older data.
- To improve the team's efficiency, I:
  - created Agile-based software engineering processes for the team,
  - implemented a plan to improve meetings that the team attends and conducts, which improved the team's ability to do focus-work throughout the day

### Turvo

#### Software Architect

February '21 - September '21

As a Software Architect, my primary responsibilities included improving the software infrastructure in terms of efficiency, reliability, and reducing technical debt.

- Improved the platform's Redis caching implementation by creating a framework that abstracted low-level operations and exposed simpler generalized methods to support caching without any boilerplate code.
- I redesigned the configurations framework of the Turvo platform, which improved the platform's overall performance by reducing data storage requirements and response times.
- Wrote a library for the framework as part of the redesign that provided simplified APIs to access the configuration.
- Designed an "Approvals framework" for the platform as an event-driven state machine that worked with entities shared between tenants on the platform.

#### Senior Software Engineer

November '17 - February '21

I was the lead engineer of the team that built a new generation of features for Turvo, using distributed architectural patterns and strict code quality standards.

- I proposed high level design, and led the implementation of several new services. The systems were designed to be deployed separately from the legacy stack, and followed microservices patterns such as service discovery, configuration management, etc.
- I initiated efforts to improve code-quality standards of the company, and developed the initial version of Turvo's automated code quality inspection tool using SonarQube, Jenkins and Bitbucket. The tool was designed to be triggered automatically when pull requests are opened, and then perform code analysis, and post results back to the repository as inline comments, all without any manual intervention.
- Guided and mentored junior engineers in the team on system design, project planning, clean coding, etc.

## NowFloats

### Software Architect

July '16 - October '17

- Led the team for NowFloats' enterprise conversation platform, ana.chat. I designed and implemented a completely distributed, microservices-based architecture for the platform, that could be deployed both as a standalone, single-tenant setup, or a multi-tenant cloud setup.
- Created a cross-functional team of web, mobile and back-end engineers from within the organisation for the project.

## Lookup

*acquired by NowFloats*

### VP of Engineering

July '15 - July '16

- Proposed, planned and executed the re-architecture of Lookup platform from the initial monolithic stack to a distributed architecture deployed on AWS, removing frequent downtimes and scaling the platform to handle increasing loads.
- Introduced tools like Git & Jenkins to enable continuous integration and improve development process.
- Built and organised the engineering team; introduced Jira and daily stand-up meetings.
- Worked with the product and design teams, and conceptualised product features and UI/UX design; and created design concepts from time to time

## ZipDial

*acquired by Twitter*

### Lead Engineer

Sep '13 - July '15

- Handled development of voice based applications on cloud telephony, which was ZipDial's flagship service.
- Worked closely with the product delivery team and developed customer journeys for ZipDial's clients.
- Created a re-usable internal framework for application development that cut down delivery times by half.
- Conceptualised, developed and deployed a custom monitoring and alerting tool for the 3rd party cloud telephony platform, which helped avoid down-times proactively.
- Handled IVR platform vendor interactions, identified and fixed issues working with the vendor's technical team

After the [acquisition of ZipDial by Twitter](#), I continued handling the cloud telephony vertical.

## Innoz

### Software Architect

Nov '09 - Aug '13

*Innoz was the developer of the award winning SMS based search and answering engine, SMS Gyan, which helped users find information on the Internet via SMS. I joined the company as the first employee while in college and was the head of engineering in the company. I was [featured on YourStory.com](#) while at Innoz.*

- Wrote the source code of SMS Gyan from scratch, using a simple PHP & MySQL stack, which evolved into a distributed architecture with applications written in Java and PHP, using Memcached, MySQL and MongoDB. The platform handled traffic of more than a million queries per day, from over a hundred million users.
- Directly worked with leading Indian telecoms such as Airtel, Vodafone, Idea, Aircel, etc to onboard the product as a value added service.
- Built and organised the engineering team into product development, R&D, platform and support teams, and streamlined the engineering process. Hired engineers and team leads with various skill sets for all teams. Managed and mentored freshers and lateral hires.

## Skill Set

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### Tools, Technologies & Techniques

- Java, Spring Framework
- Python, PHP, Javascript
- Redis, MySQL, MongoDB
- Elasticsearch, Logstash, Kibana
- RabbitMQ
- Web applications, REST APIs
- Micro-services & Distributed architecture
- Git, Maven, Jenkins
- NGINX, Apache, Tomcat
- AWS, Google Cloud Platform

### Qualities

- Meticulous, yet pragmatic about code standards and quality. I treat tech-debt with priority, and clear them as early as possible.
- Ability to collaborate well with non-technical departments; I have made product & engineering execution plans working with operations & sales teams, while keeping the organisation's mission in focus.
- Have managed tech and product team members of various disciplines; have defined KPIs and competency mapping for performance management & evaluation of developers.
- Attention to detail and good aesthetic sense. I have conceptualised app UI/UX designs using Sketch and have built web UI using ReactJS. The UI I designed for Lookup resulted in improved customer retention and engagement.

## Education & Certifications

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### Attended LBS College of Engineering (Kannur University)

*for Bachelor of Technology in Computer Science & Engineering (2005 - 2009)*

### Machine Learning *by* Andrew Ng

*Coursera / Stanford University (2016)*

→ [Course Certificate](#)

### NIIT

*Diploma in Computer Applications (2003)*