

# Tushar Kumar

## Software Engineer

Software Engineer with 6+ years of experience in designing and developing secure scalable and reliable software components for fast paced business environment.

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Bangalore, India

## Work Experience

### Appsmith Software Pvt. Ltd.

Apr 2023 - Present Open Source Internal Tooling Platform.

#### Compatibility with Document DB for Business Edition users

- Revamped the repository layer by testing, benchmarking and finding alternative queries to make mongo db based Appsmith compatible with AWS Document DB.

#### Product Alerting Mechanism

- Mechanism to provide alerts to users for breaking changes planned in future releases. Used Spring expression language and facade pattern to enable easier evaluation of message applicability for different users.

#### Revamp of request handling layer

- Revamped the cloud instance to move to Golang from reactive streams in java since multithreading was better with reactive streams but high turnaround time.

#### Datasource Plugins Refactor and new Plugins POC

- Refactored plugins module to use sound design patterns so that open source community can add plugins easily. POC of new plugin using google photos as datasource with OAuth to control access.

### Cashfree Payments India Pvt Ltd

Jul 2021 - Mar 2023 Payments solution provider.

#### Merchant onboarding for Partners

- Revamped and Created new merchant partner onboarding platform in Golang improving reliability compared to existing node based implementation.

#### Payment links and forms

- Enhanced and managed the Payment links and forms platform. Reduced failure rates and latency in bulk operations.

#### Payment app for Shopify ecommerce platform

- Created the Shopify payment app which merchants could install on shops and get payments processed for their customers via cashfree. Ensured reliable payment and order creation by implementing 3 layer reconciliation.
- Implemented required security, latency and reliability requirement some of which were first time in the organisation. Created edge layer service for faster requests handling, caching, rate limiting and idempotency checking in Golang and implemented repository service in Java.

### Amazon Development Centre (India) Private Limited

Oct 2019 - Jul 2021 Tech wing of Ecommerce giant.

#### Generalised Costing Module

- Extendable costing module to enable cost calculation at various granularities (cartons, containers, packets).

#### Reconciliation for Financial Systems

- Integrated financial systems using aws kinesis firehose to reconciliation systems in a different geographical region.

#### Annual Peak Scaling spoc for Financial Systems

- Ensured resilience of each system by request volume forecasting and load testing.

#### Stack Setup Automation

- Automated the stack setup process of a suite of financial systems in restrictive AWS regions.

### LendingKart Technologies Pvt. Ltd.

Feb 2019 - Oct 2019 A fin-tech company in the working capital space.

- Worked on developing UI for loan management and loan documents processing systems.

### Kuliza Technologies Pvt. Ltd.

Jul 2017 - Feb 2019 Digital Transformation Partner for Financial Enterprises.

- Created software products for clients working in Insurance and Finance sectors to help their business expand over the internet.

## SKILLS

GoLang

Java

K8s

AWS

CI/CD

Reactive Streams

Database Design

Event Driven Systems

React/Angular

## Education

Bachelor of Engineering  
Computer Science and Engineering

Birla Institute of Technology, Mesra

08/2013 - 06/2017

First Class with  
Distinction