

# Abhishek Singh

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## EXPERIENCE

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### Software Engineer

Jan 2023 — Present

Nightfall AI, Bengaluru

- Built a multi-tenant onboarding flow for Microsoft 365 DLP, enabling integration of **100+ applications** across **60+ enterprises**.
- Developed Microsoft Teams DLP suite monitoring **~10K channels** and **DMs and group messages for ~20K users** across **50+ enterprises** in real-time. The system processes **~200 channel messages/hour** and **~2.5K chat messages/hour**.
- Developed Microsoft SharePoint DLP suite enabling automated scanning of site libraries for sensitive data.
- Architected a generic subscription manager and policy engine supporting M365 integrations (OneDrive, Exchange, etc.), managing **~30K subscriptions** for Microsoft entities (teams, channels, sites, libraries, drives).
- Deployed a Microsoft Teams Bot exposing Teams as a notification platform for violation and remediation alerts.
- Developed a self-serve audit platform enabling historical scans across multiple integrations (Google Drive, Microsoft 365, GitHub). Implemented bulk action capability for violation remediation, successfully processing **1K+ scans** covering **>10 TB of data**.
- Enhanced historical scan platform performance, increasing throughput from **~400 GB/day** to **~2 TB/day** through bottleneck identification and optimization. Built AWS S3-based test integration for performance validation.
- Optimized Google Drive DDR ingestion pipelines, reducing latency from **~1 day** to **~1 hour** by leveraging AWS SQS, Temporal, and native Go goroutines, empowering **150+ enterprises**.
- Constructed data pipelines for real-time customer event ingestion to Snowflake, enabling product analytics through AWS Glue and DBT.

**Technologies:** Go | Fx | Gin | gRPC | Kubernetes | Terraform | PostgreSQL | Redis | AWS Lambda | AWS Glue | AWS SQS | AWS S3 | AWS EFS | AWS KMS | Azure Entra | Azure Graph | Snowflake | Temporal | Kafka

### Product Engineer

Jul 2020 — Dec 2022

Udaan, Bengaluru

- Enhanced organic collections by harnessing various digital modes to mitigate credit exposure.
- Empowered field collection operations to reduce non-performing assets.
- Revamped product workflows to cut down the overall cost of collections.
- Optimized database indexes and storage to improve performance and service latencies.

**Technologies:** Kotlin | Typescript | Javascript | Dart | Dropwizard | React Native | React.js | Flutter | Kubernetes | Android | SQL Server

### ML Engineer (Intern)

May 2019 — Jun 2019

TechTree IT, Bengaluru

- Harnessed RFM techniques on sales data of customers to predict their CLTV.
- Modeled recommender systems for suggesting game packs along the storyline.
- Built and deployed ML models to REST servers and consoles.

**Technologies:** Python | R | Django

## EDUCATION

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### NIT Calicut

Aug 2016 — Apr 2020

*B. Tech, Chemical Engineering*