

KUNAL SHARMA

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ABOUT ME

Software Engineer with almost 7 years of experience in **Biomedical**, **E-Commerce**, and **Cloud Computing** domains. Other areas of interest include Computer Networks, Computer Architecture, Network Security, Distributed Systems, and *nix Scripting. An open-source enthusiast who loves experimentation and is always open to learning new technologies.

EDUCATION

IIITD

Bachelor of Technology in Electronics and Communication

New Delhi, India

Aug. 2015 – May 2019

TECHNICAL SKILLS

Languages: Java, Python, C/C++, Bash, Go

Frameworks: Dropwizard, Flask

Technologies: IaC(Terraform), Kubernetes, Spark, MongoDB, Elasticsearch, Kafka, AWS

EXPERIENCE

Software Development Engineer (L5)

Dec, 2024 – May, 2026

Amazon Web Services

Dublin, Ireland

- Led a cross-team initiative to reduce deployment time across AWS Regions from 21 days to 10 days (52% reduction) for the AWS Lambda Control Plane, improving release velocity.
- Designed and implemented an internal API enabling GDPR-compliant workflows for AWS Lambda Capacity Providers.
- Owned end-to-end automation of AWS Lambda's region expansion pipeline using a code-driven approach; scaled to 15 regions and eliminated manual deployment tracking, accelerating feature rollout for Lambda Managed Instances.

Software Development Engineer - II

Sept, 2022 – Nov, 2024

Flipkart

Bangalore, India

- Designed and developed Authorization and Authentication model for Vendor - Retailer Payments Invoicing System.
- Led the end-to-end design and implementation of a near-realtime brand offer activation platform.
- Designed a conflict-resolution algorithm for overlapping brand offers.
- Architected and developed the new claims portal for recovering money on the offers given by brands for compliance and IPO readiness.
- Partnered with Product to define north star capabilities for the Offers and Claims platform, Participating in cross-team PRD discussions and design reviews.
- Designed and contributed to an internal Document Store platform, introducing document tiering/archival, faster metadata-based document search, and signed URL uploads; improved upload latency by 150 ms through NFR-driven optimizations; Served as SME.
- Contributed to horizontal bulk file processing capabilities, by introducing large file handling and client-level BYOC support; served as SME, onboarding multiple teams and guiding architectural decisions.
- Developed customizable Aggregation queries API on ES for analytics purposes.

Software Development Engineer - I

June, 2021 – Sept, 2022

Flipkart

Bangalore, India

- Developed a data warehousing pipeline for invoices, enabling efficient customer returns and reducing warehouse processing lag.
- Successfully led the migration of client libraries from Hysterix to Resilience4j
- Developed the cold store data pipeline to serve read and enrichment requests within milliseconds efficiently.
- Successfully led the migration of the internal document store horizontal service from AWS to GCP with minimal downtime.
- Managed and maintained the Sharded and Replicated MongoDB Cluster.

Software Engineer

June, 2019 – June, 2021

Elucidata

New Delhi, India

- Worked on adding new features on an open-source HTTP proxy layer written in Java to manage containerized applications on Kubernetes using fabric8.
- Wrote webpack configuration files for multiple Angular projects, reducing 40% of bundle size and decreasing page load time.
- Developed architecture for maintaining charts and dashboards and efficiently scaling up the application for each user on Kubernetes.
- Successfully led the migration of back-end algorithms and internal Python packages from Python 2 to Python 3.
- Integrated new plotting libraries like Plotly, d3, and Cytoscape into Apache Superset for plotting charts.
- Wrote Terraform modules to create infrastructure over Microsoft Azure and AWS.