

# Sumit Kumar

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## Summary

Passionate Tech Leader with extensive experience working in start-ups at various stages. Expertise in efficient application design, scaling applications and teams, improving DevOps processes (by abstracting infrastructure and services), and minimizing technical debt. Special emphasis on developer workflow design to improve application performance, deployment automation, and improving overall developer productivity. Proven track record of consulting with multiple start-ups to diagnose business challenges and implement robust technical strategies.

## Experience

### Independent Consultant | Startups & SMEs

*Luxembourg* | 2023 - Present

- Conduct in-depth client consultations to diagnose technical challenges and create product development and deployment strategies.

### Technical Consultant | Various Startups

*Mumbai* | 2012 - 2019

- Diagnosed organizational challenges across operations, strategy, and technology domains.
- Conducted client needs assessments to streamline technical operations.
- Advised about hiring and conducted technical interviews.

### Tech Team Member | Piggy.co.in

2018

- Architected database migration plan to Amazon RDS, automating replication for devs/ops with data sanitization and privacy compliance.
- Engineered search infrastructure and backend search APIs using Elasticsearch.
- Refactored application worker queue architecture and API integrations to resolve critical bugs.

### Consultant | Revcontent.com

2017 - 2018

- Implemented a high-scale ranking algorithm for URLs/news articles by domain and topic using AWS DynamoDB/Java.
- Created video encoding and transcription workflows using Amazon Elastic Transcoder and Amazon Transcribe.
- Refactored event processing pipelines acquired from Rover/Flipora (content discovery app).
- Contributed to the initial build of powr.com.

## Head of Operations Technology | Housing.com

2013 - 2015

- **Impact:** Improved operational time for real estate listing (data collection to live) from 2 days to under 1 hour.
- Established and led the Bangalore technical team to build internal products for operations and data collection.
- Built microservices APIs for internal services and created starter projects to bootstrap new APIs quickly.
- Architected an analytics and event pipeline for Web/Android/iOS using MQTT protocol and emqtt (Erlang broker) for high concurrency.

## Tech Team Member | Chaupaati

2008 - 2009

- Worked as Full-Stack developer on Search (Solr) within a Java/GWT application environment.
- Addressed critical bugs in core APIs to improve system stability.

## Sr. Software Engineer | ANMSoft

2007 - 2008

- Led technical teams servicing major e-commerce clients (Homeshop18, Times Shopping, Ferns & Petals) focusing on search, DB migration, and performance profiling.
- Led development of the first prototype for Octashop, an internal product for building client e-commerce stores.

## Product Manager / Engineer | Bizo Software

2004 - 2007

- Built a configurable messaging API over HTTPS with a C#.NET client SDK for distributed accounting data sharing.
- Enabled synchronization of C#.NET/MSSQL applications across multiple geographical locations.

## Education

### IIT Bombay

*EE (Comms and Signal Processing)* | 1998 - 2004

- Status: Dropped out
- Focus: Image recognition using Aspect Graphs

## Skills

- **Languages:** Elixir, Erlang, Python, C, Java, Swift, SQL
- **Infrastructure & DevOps:** Kubernetes, Docker, Ansible, AWS, GCP, Linux
- **Data & Search:** Postgres, MySQL, Redis, Solr, Elasticsearch, Aerospike
- **Web & Frameworks:** Phoenix, Django, Node/Express, Rails, React, MQTT, RabbitMQ