

# KUMAR ABHISHEK

## Senior Software Engineer Lead

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### PROFESSIONAL SUMMARY

**Senior Software Tech Lead with 7.8+ years of experience** in architecting scalable distributed systems and AI-driven solutions. Directed cross-functional teams of **11–15 engineers** to deliver **99.9% system uptime** and a **20% reduction in delivery cycles**. Expert in **Python, Django, and RAG architectures** (LangChain, Ollama), driving a **30% boost in user retention** through Generative AI integration. Honored as "**Star of the Quarter**" (Q1 2025) for leadership and technical excellence.

### EXPERIENCE

**7.8+ Years**

**HERKEY (Formerly Jobsforher), Bengaluru, Karnataka**

**05/2023 – Present**

**Senior Software Tech Lead**

**Technologies:** Python (Django), MongoDB, Delta Lake(Extract, Load, Transform [ELT]), AWS (Rekognition, Transcribe), Redis, Microservices (Kubernetes, Helm), Jenkins, Docker, React(Native), n8n, LangChain, LangGraph,

**AI & ML Tools:** spaCy, Scikit-learn, Ollama, TensorFlow (Keras), PyTorch, NLTK

**Projects:** HERKEY 4.0, Jobsforher 3.0, Roadmap, Content Delivery Management, Magic Profanity Detection, Video Conferencing, Payment management system, **Simkey (Agentic AI Assistant)**

- **Architectural Leadership & Migration:** Orchestrated the **High-Level Design (HLD)** and migration for **HERKEY 4.0**, directing a cross-functional team of **11–15 engineers**. Achieved **99.9% system uptime** and reduced delivery cycles by 20% through refined Agile and CI/CD processes.
- **Agentic AI Orchestration (Simkey):** Architected Simkey, a personalized AI productivity assistant that uses Agentic RAG and Voice Agent architectures. Designed a proprietary Cognitive Context Layer and Agentic Fleet (Knowledge, Data, Action Agents) to orchestrate complex workflows, incorporating robust guardrails for PII masking and tone validation.
- **GenAI Production Systems:** Integrated Generative AI pipelines (Ollama, LangChain, LangGraph) to power the *Roadmap* and *Content Delivery* features, driving a 30% boost in content retention and a 15% increase in user engagement.
- **Scalable Distributed Systems:** Engineered a high-performance API publishing service for Video Conferencing and Payment systems. Achieved a 94% cache efficiency rate, optimizing response times for thousands of concurrent monthly users.
- **Automated Trust & Safety:** Spearheaded the **Magic Profanity Detection** engine, leveraging hybrid NLP models (spaCy, Scikit-learn) and **AWS Rekognition** to automate content moderation, significantly reducing manual oversight.
- **Data Engineering Optimization:** Designed scalable ELT/ETL workflows using Delta Lake and Oracle Data Integrator, reducing data processing bottlenecks by 80% and improving the precision of predictive models across the ecosystem.
- **Risk Mitigation & Mentorship:** Proactively mitigated 50+ critical performance and security risks across microservices while mentoring junior developers in Python and Kubernetes best practices to foster a culture of engineering excellence.

## Cappgemini Pvt Ltd, Bengaluru, Karnataka

08/2021 – 04/2023

### Senior Software Developer

**Technologies:** Python (Django), SQL, JavaScript, Rest API, AWS EC2, REDIS, Data Warehouse (Extract, Transform, Load [ETL])

**Projects:** AIRBUS Product Lifecycle Management (PLM) Engineering ADB ( Assignment Database), DQCM ( Design Quality Check Manager), Long Range CLASH, ART ( AIRBUS REVIEW TOOL)

- **Global Stakeholder Collaboration:** Led technical collaborations with Airbus engineering teams across Germany, Paris, and Scotland to validate designs and automate anomaly detection for **Airbus Review Tool (ART)**.
- **Mission-Critical Quality Assurance:** Managed the **Design Quality Check Manager (DQCM)**, ensuring strict compliance with Airbus PLM engineering standards and resolving technical issues for remote European divisions.
- **AI-Driven Anomaly Detection:** Developed AI-driven prototype scripts using Python to identify data anomalies and automate quality assurance checks within high-stakes engineering databases like the **Assignment Database (ADB)**.
- **Legacy System Modernization:** Orchestrated the migration of legacy DQC systems to modern architectures, significantly enhancing system performance, maintainability, and security.
- **Operational Excellence:** Provided L2/L3 support for mission-critical aviation applications, resulting in a 20% reduction in customer support tickets through proactive troubleshooting and automation.
- **Technical Mentorship:** Mentored junior developers in Python (Django) and modern AI/ML development practices, fostering technical growth within the internal engineering team.

## SOFTWILL Infotech Pvt LTD, New Delhi, India

06/2019 – 10/2020

### Full Stack Developer

**Technologies:** Python(Django), PHP( CodeIgniter), SQL, React(Native),AWS, Celery, STRIPE

**Projects:** ERP, SUGAR CRM, GOeasyrepair, Aquafresh, Softwill Infotech, Echosoftware

- **Full-Stack Development:** Developed and deployed web applications for ERP and Sugar CRM platforms, building RESTful APIs for third-party integrations and mobile apps.
- **Payment Integration:** Integrated multiple payment gateways, including Stripe, and developed platforms for service-based projects like Goeasyrepair and Aquafresh.
- **Security & Access Control:** Implemented Role-Based Access Control (RBAC) to manage user permissions and secure endpoints across high-traffic platforms.
- **Automation & Testing:** Automated functional testing with Selenium and Pytest, reducing deployment cycle time by 25%.
- **Cloud & Task Management:** Deployed scalable applications on AWS and utilized Celery for efficient background task processing and job queuing.

## Bird Global, New Delhi, India

08/2017 – 05/2019

### Junior Associate Engineer

**Technologies:** PHP, Python(Django), HTML, CSS, JavaScript, SQL, AWS Client

**Projects:** Birdglobal, MithilaShop

- **ETL & Data Processing:** Implemented robust error handling and logging mechanisms, improving system reliability. Optimized workflows, reducing data processing time by 40%. Developed and maintained REST APIs. Integrated Celery for task scheduling.

## EDUCATION

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Bachelor of Technology in Computer Science and Engineering  
G.L. Bajaj Institute of Technology and Management, Uttar Pradesh – June 2017

## SKILLS

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- **Programming & Backend:** Python, Django, Flask, JavaScript, React Native
- **AI/ML & Trust Engineering:**
  - **Generative AI:** Large Language Models (LLMs), RAG, LangChain, Ollama, Hugging Face
  - **ML/NLP:** spaCy, TensorFlow, PyTorch, Profanity Detection
- **Infrastructure & DevOps:**
  - **Architecture:** Microservices, Distributed Systems
  - **Tools:** Kubernetes, Docker, Jenkins
- **Data Engineering:**
  - **Databases:** MongoDB, Redis, SQL
  - **Processing:** ETL & ELT Workflows, Oracle Data Integrator, Celery
- **Cloud & Security:**
  - **Cloud:** AWS (EC2, Rekognition, Transcribe)
  - **Security:** RBAC, API Security, Risk Mitigation
- **Leadership & Culture:**
  - **Management:** Directing teams of 11–15 engineers, Mentoring
  - **Methods:** Agile, SFAE 4 Practitioner, Jira

## CERTIFICATIONS

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- **Programming in HTML5 with JavaScript and CSS3** - Indian Institute of Technology(IIT), Delhi
- **Python (Advanced), React & Django, Flask**
- **SFAE 4 Practitioner Certification** - Scaled Agile, Inc. Issued Mar 2022 - 2023
- **Continuous Delivery & DevOps** - University of Virginia
- **Linux Automation using Bash Scripting**
- **NLP, Generative AI, RAG, LoRA, LangChain, and AI Agents.** - Udemy

## HONORS & AWARDS

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- **Star of the Quarter (Q1 2025)** – Awarded for exceptional leadership and high-impact technical contributions during the HerKey 4.0 migration.
- **SPOT Award (04/2025)** – Recognized for immediate excellence in project delivery and proactive risk mitigation.
- **Employee of the Month (EOTM)** – HerKey (01/2025, 09/2024, 02/2024); achieved multiple recognitions for consistent performance and technical excellence.
- **HerKey Champion: Proactive Award (2024)** – Honored for demonstrating high initiative in identifying and resolving critical system vulnerabilities

## LANGUAGE

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- English (Professional)
- Hindi (Native)