

# Kundan Kumar

Backend Engineer 7.5 Years Exp.

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## EDUCATION

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- **Indian Institute of Technology, Delhi** Delhi, IN  
*Bachelor of Technology in Electrical and Electronics Engineerings; GPA: 7* *Aug. 2010 – June. 2014*

## EXPERIENCE

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- **Pasarpolis** Bangalore  
*Engineering Lead* *May 2023 - Present*
  - **Product Expansion:** Architected and onboarded 3 major products — Travel Protection, Extended Warranty, and Offline-to-Online flow — from backend design to production rollout.
  - **Infrastructure Cleanup:** Merged redundant services (Gateway, Payment, Policy Creation) by enabling dual writes and ensuring data consistency, reducing engineering overhead and infra complexity.
  - **Wallet Consistency:** Resolved concurrency issues in wallet transactions using locks and async retries; initiated wallet partitioning plan for better throughput.
  - **Agent Tooling:** Designed hierarchical MLM agent performance dashboards to improve transparency and monitoring, where performances for a team can be tracked.
  - **Support Automation:** Introduced internal OPS tools and enhancements based on ticket trend analysis, reducing recurring support tickets by 90%
  - **Auth Optimization:** Transitioned user login from OTP to PIN-based flow across mobile/web platforms to improve UX and reduce authentication time.
- **Nykaa** Gurgaon  
*Senior Software Engineer* *Aug 2022 - April 2023*
  - **System Optimization:** Implemented application-side caching on the application memory, reducing Redis network calls by 70% and further cutting latency for API calls for revenue attribution service.
  - **High Performant System:** Worked on backend services powering dynamic widgets and personalized user experiences across high-traffic pages, handling millions of daily requests backed by scalable NoSQL systems.
  - **Data Pipeline Redesign:** Replaced a Pub/Sub-based revenue attribution stream with a daily cron-driven batch process, sending JSON deltas to the data science team for transformation and billing integration
- **Pasarpolis** Gurgaon  
*Senior Software Engineer* *Jan 2021 - Aug 2022*
  - **Core Service Development:** Built agent-facing services to compare and book insurance policies, using Python-Django, Redis, Kafka, MySQL, MongoDB — all hosted on GCP
  - **Financial Modules:** Designed modular financial components — tax calculation, policy endorsements, invoice generation, and a pluggable commission service — handling sensitive transaction flows.

Took a 2.5-year **career break** to pursue **UPSC** civil services, reaching final-stage interviews.
- **Amazon** Chennai  
*SDE-1* *Aug 2017 - Feb 2018*
  - **Infra Cost Reduction:** Worked on refactoring Gateway service into a reusable internal library used by downstream services, that would save \$4M projected annual infrastructure savings.
  - **Service Ownership:** Maintained Gateway and Search & Discovery services for Amazon Appstore, ensuring performance across global regions and proper scaling during peak/sales.
- **Robert Bosch** Bangalore  
*Senior Engineer* *July 2014 June 2017*
  - **Proof-of-Concept Development:** Acted as the go-to PoC engineer, building early prototypes for products in automotive and smart systems, that included works on WiFi, Bluetooth, Zigbee
  - **Interface Libraries:** Developed reusable display and driver libraries for dot-matrix LCD screens, enabling user-friendly alphanumeric input and menu rendering on navigation-key based embedded devices.
  - **Healthcare Prototyping:** Designed a handheld blood potassium monitoring device from the ground up, owning both embedded software and hardware architecture.

## PROGRAMMING SKILLS

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- **Languages:** Python, Java, C, SQL      **Tech/Frameworks:** GCP, AWS, Django, Flask, Kafka, Redis, Spring