Kundan Kumar

Backend Engineer — 7.5 Years Experience

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EDUCATION

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

EXPERIENCE

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, enabling team-level tracking.
- **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 to reduce Redis network calls by 70% and cut API latency for the revenue attribution service.
- **High-Traffic Platform**: Developed backend services powering dynamic widgets and personalized user experiences across millions of daily requests, backed by scalable NoSQL systems.
- **Data Pipeline Redesign**: Replaced a Pub/Sub-based revenue attribution stream with a cron-based Airflow pipeline, sending JSON deltas to data science via PySpark for transformation and billing.

Pasarpolis Gurgaon
Senior Software Engineer *Jan 2021 – Aug 2022*

- **Core Service Development**: Built agent-facing services to compare and book insurance policies using Django, Redis, Kafka, MySQL, and 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**: Refactored Gateway service into a reusable internal library for downstream teams, projected to save $4M annually in infrastructure costs.
- **Service Ownership**: Maintained Gateway and Search & Discovery services for Amazon Appstore, ensuring performance and scalability across global regions.

Robert Bosch Bangalore
Senior Engineer *July 2014 – June 2017*

- **Proof-of-Concept Development**: Led PoC development for automotive and smart systems, including Bluetooth-enabled tyre monitoring, Wi-Fi blind spot camera integration, and Zigbee-based smart fields.
- **Interface Libraries**: Built reusable display libraries for dot-matrix LCDs to enable alphanumeric input and menu rendering via navigation keys.
- **Healthcare Prototyping**: Designed and prototyped a handheld blood potassium monitoring device, owning both embedded firmware and hardware architecture.

PROGRAMMING SKILLS

- Python, Java, C, SQL, MongoDB, Django, Flask, Spring, Kafka, Redis, GCP, AWS