

AMAN KUMAR

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Professional Summary

Backend & DevOps Engineer with 2+ years of experience designing and deploying scalable cloud-native applications, microservices architectures, and automated Continuous Integration/Continuous Deployment (CI/CD) pipelines. Expertise in Amazon Web Services (AWS) cloud infrastructure, containerization (Docker, Kubernetes), Infrastructure as Code (IaC) using Terraform and Ansible, and building high-performance backend systems using Golang, Node.js, and Python. Proven track record of reducing deployment times by 20%, optimizing system performance by 40%, and implementing comprehensive monitoring solutions.

Experience

Autobit

Software Engineer (Backend & CloudOps)

October 2024 – September 2025

Noida, Uttar Pradesh

- Implemented CI/CD pipelines using Jenkins and Docker, ensuring rapid and error-free deployments to AWS (EC2, S3) and Linode machines, reducing deployment time by 20%.
- Developed and deployed backend microservices using Node.js, Express.js, and Django, improving system response time and enabling real-time operational dashboards.
- Integrated PostgreSQL, MySQL, and Elasticsearch/Solr to boost query performance by 40% through optimized indexing and caching strategies.
- Utilized Linux systems for deployment, configuration management, and maintenance of cloud infrastructure, ensuring high availability and scalability.
- Set up observability and monitoring pipelines using Prometheus and Grafana, reducing incident detection time and enabling proactive issue resolution.
- Implemented custom query parser and Abstract Syntax Tree (AST) builder in Go, enabling advanced filtering, projections, joins, and nested aggregations in the database system.
- Optimized infrastructure with Nginx reverse proxy and Docker-based containerized deployments, supporting multiple domain-specific services in isolated environments.
- Contributed to building extension-based architecture for the database system, supporting multi-language extensions with lifecycle hooks and inter-process communication using NATS messaging.

Cybernauts Technologies PVT LTD.

Backend Developer

September 2023 – October 2024

Noida, Uttar Pradesh

- Engineered an advanced Search Engine Optimization (SEO) automation tool, resulting in a 45% increase in website traffic and a 30% improvement in search engine rankings within six months.
- Engineered a tool to automate WhatsApp Business API chats, streamlining customer interactions and improving response times by 30%.
- Engineered an internal Optical Character Recognition (OCR) tool using Python and Tesseract, reducing costs and workforce requirements by 80%.
- Revamped LexBuddy's usability by implementing advanced search filters and customizable dashboards; boosted user satisfaction ratings by 30% and decreased user drop-off rates by 20%.
- Developed and optimized high-impact projects, reducing technical debt by 50% and increasing code maintainability; played a key role in launching two major product updates that increased user acquisition by 30%.
- Led and migrated 10 client projects from Google Cloud Platform (GCP) to AWS EC2 in a single day, ensuring smooth transitions with minimal downtime and zero data loss.
- Orchestrated team collaboration sessions to gather requirements, architect solutions, and deliver software products; enhanced user satisfaction by 40% and reduced deployment time by 20%.

Technical Skills

Cloud & DevOps: AWS (EC2, ECS, S3, RDS, CloudWatch), Docker, Kubernetes (K8s), Jenkins, Terraform, Ansible, Nginx, CI/CD Pipelines, Infrastructure as Code (IaC), Container Orchestration

Backend Development: Node.js, Express.js, Django, REST APIs, Microservices Architecture, Golang

Databases: PostgreSQL, MySQL, Redis, Elasticsearch, BadgerDB

Monitoring & Observability: Prometheus, Grafana

Message Queuing & Streaming: Apache Kafka, NATS, JetStream

Programming Languages: Golang, Python, JavaScript, TypeScript, SQL

Systems & Tools: Linux (Ubuntu, CentOS), Git, GitHub, Configuration Management

Projects

Payment Gateway

- Designed and developed a scalable white-label payment gateway capable of handling high-volume financial transactions in a production environment.
- Built backend services using Django with MySQL and MySQL Router for efficient connection pooling and high availability.
- Integrated Redis for caching and session management, improving transaction throughput by 35% and reducing database load.
- Containerized services using Docker and deployed behind Nginx reverse proxy on Linux servers for secure and reliable request handling.
- Scaled the platform to support 10,000+ daily active users while processing 1Cr+ transaction volume per day with 99.9% uptime.
- Implemented Jenkins CI/CD pipeline, automating build, test, and deployment workflows and reducing manual deployment effort by 60%.
- Implemented a merchant grading system that assigns risk/performance grades based on deposit volume and withdrawal frequency, enabling better transaction monitoring and decision-making.

ONQL

- Designed and implemented a write-optimized hybrid database with a custom Domain-Specific Language (DSL)-based query language using Golang.
- Built the core storage layer using BadgerDB, optimized for high-throughput, write-heavy workloads.
- Architected hybrid persistence supporting both in-memory and disk-based storage, enabling schema-driven data placement using Redis or persistent disk storage.
- Implemented a multi-language extension system using NATS.io, allowing external services to interact with the database via messaging.
- Leveraged NATS Pub/Sub and JetStream for internal event routing, durability, and reliable message processing across the system.
- Focused on scalability and low-latency ingestion to support write-intensive workloads in production-like environments.

gopolar.io

- Developed Polar AI, a conversational Artificial Intelligence (AI) platform designed to automate customer interactions and workflows across industries such as hospitality, e-commerce, and real estate.
- Implemented a workflow automation feature that automates chat interactions, reducing manual intervention by 30% and improving response times by 25%.
- Engineered Facebook OAuth integration, streamlining user authentication for 80% of new app users and decreasing account creation abandonment by 15%.
- Enabled efficient design of message templates by creating custom template generator, reducing setup time by 40%.
- Created a JavaScript Client Software Development Kit (SDK) for seamless integration, enabling easy and efficient connection with platform services.

grrow.ai

- Implemented grrow.ai, a cutting-edge tool leveraging generative AI to streamline SEO processes, enhancing website visibility and traffic through innovative content generation strategies.
- Utilized Python and advanced AI techniques to develop grrow.ai, empowering users with automated SEO solutions tailored to their specific needs and objectives, thereby optimizing online presence and search engine rankings.

Education

Bachelor of Computer Applications (BCA)

IGNOU

Class 12th

CBSE