

# AMAN KUMAR

+91 9821018981 — [amankumar020003@gmail.com](mailto:amankumar020003@gmail.com) — [amanc0des](#) — [LinkedIn](#)

## Professional Summary

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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

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### Autobit

October 2024– September 2025

*Software Engineer (Backend & CloudOps)*

*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.

September 2023 – October 2024

*Backend Developer*

*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

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**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

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### 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.

### grow.ai

- Implemented grow.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 grow.ai, empowering users with automated SEO solutions tailored to their specific needs and objectives, thereby optimizing online presence and search engine rankings.

## Education

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**Bachelor of Computer Applications (BCA)**

**IGNOU**

**Class 12th**

**CBSE**