

Ashutosh Kumar

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Education

Manipal University Jaipur

Bachelor of Technology in Computer Science and Engineering (CGPA: 8.61 / 10.00)

Expected JUL 2026

Jaipur, Rajasthan

- **Relevant Coursework:** Data Structures and Algorithms (Java), Operating System (OS), Object Oriented Programming (Java), Relational Database Management System (RDBMS), Web Technologies, Computer Network, AIMA, DL, DevOps

Technical Skills

Languages	Java, JavaScript/TypeScript, Python, Go, Rust
Web & UI	HTML, CSS, Tailwind, React.js, Recoil, Node.js, Express
Databases	MySQL, PostgreSQL, MongoDB(NoSQL), Redis
Cloud/DevOps	Docker, Kubernetes, AWS (S3, Lambda, ECS, EC2, ECR), Prometheus, Grafana, Loki
Tools & Infra	OS (Linux/UNIX/Windows), gRPC, Kafka, Prisma, Git, Postman

Experience

Bindisa Agritech

Backend Engineer & Team Lead

May 2025 – July 2025 | Gaya, India

- Led a team of 5 engineers to design and ship backend APIs, contributing directly to core business logic and system architecture.
- Reviewed and merged 20+ pull requests, enforcing modular design, performance standards, and maintainable code practices.
- Optimized API endpoints and database queries, reducing average response latency by 35%.
- Planned and executed 2-week agile sprints, delivering all milestones on schedule across the internship period.

Projects

Mailgrid – Email Campaign Toolkit | Go, SMTP, HTML, CSV, Google Sheets API, Concurrency, React, Wails

- Developed an offline-first email automation CLI supporting CSV, Google Sheets, HTML templates, and SMTP for 10k+ recipients.
- Implemented parallel email dispatch with batching, retries, rate limiting, and dry-run mode, cutting send time by 60%.
- Architected a rule-based filtering engine (AND/OR/NOT) that lowered bounce rates by 10%.
- Delivered a cross-platform desktop application using Wails and React with onboarding and template preview.

Video Transcoding Pipeline | TypeScript, Node.js, Kafka, Docker, AWS, Prometheus, Grafana

- Implemented an event-driven video transcoding pipeline consuming Kafka events at scale.
- Streamed video assets directly from S3 into FFmpeg containers, reducing I/O latency by 40%.
- Orchestrated 480p-1080p transcoding workflows using ECS workers, improving throughput by 65%.
- Strengthened system reliability and observability via offset management and Prometheus-Grafana dashboards.

UCFP – Universal Content Fingerprinting Framework | Go, Rust, Kafka, FFmpeg, NLP, Perceptual Hashing

- Designed a scalable framework for detecting reused or plagiarized text and video content.
- Developed canonical and perceptual fingerprinting pipelines enabling near-duplicate detection with sub-second matching.
- Hardened fingerprints against trimming, re-encoding, normalization, and partial reuse.
- Implemented a match orchestration layer with configurable thresholds and false-positive control.

Achievements

- Solved 450+ Data Structures and Algorithms (DSA) problems on LeetCode using Java.
- Awarded Dean's List in the 6th semester for achieving the highest grade point average (GPA).
- Secured 4th place among 128 individual participants in a hackathon organized by MUJ ACM.