

# KRISH KUMAR

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## EDUCATION

### S.G.T University

Master of Computer Applications

Sep 2024 – May 2026

CGPA - 8.68

### Global Institute of Technology and Management

Bachelor of Computer Applications

Sep 2021 – Mar 2024

CGPA - 8.52

## EXPERIENCE

### Cactus Communications

Jan 2026 – Apr 2026

Software Engineering Intern | **Tech Stack:** PHP, Laravel, PostgreSQL, Docker, Kubernetes, Jenkins Mumbai, Maharashtra

- Reduced query execution time by **30%** for **10K+** daily users by profiling and optimising PostgreSQL queries with **Laravel Telescope** and **New Relic** observability dashboards.
- Cut primary DB load by **35%** via a **queue-based, event-driven** archival pipeline using **Laravel Horizon** (message queue) to asynchronously migrate **1M+** inactive records to cold storage.
- Decreased mean debugging time by **40%** via a queue monitoring system with structured logging, distributed tracing (**Grafana/Loki**), and automated backlog-spike alerts.
- Tracked issues and coordinated sprint work via **JIRA** following **Agile/Scrum** SDLC practices, contributing to solution design discussions for backend changes.

### Tangleknot Digital Solutions

Feb 2025 – May 2025

Software Engineering Intern | **Tech Stack:** React.js/Next.js, Node.js, Redis, AWS EC2, Docker Gurugram, Haryana

- Optimized API performance by **80%** (310ms → 59ms) via **Redis** caching with DB fallback, deployed on **AWS EC2**.
- Built **mobile-first**, responsive UI components in **React.js** with **Redux** state management, reducing re-renders by **25%**; debugged rendering bottlenecks through cross-browser profiling.
- Delivered 2 production grade **REST APIs** for backend operations, processing **50K+** requests per month, reducing manual workflows by **25%**.
- Integrated **AI-assisted** development tools (**Claude**, **GitHub Copilot**) to accelerate feature delivery, reducing boilerplate authoring time by **30%**.

## TECHNICAL SKILLS

**Languages:** C, C++, Go, Java, JavaScript, SQL, Python, Bash

**Frontend:** HTML, CSS, TypeScript, React.js, Next.js, Redux, Zustand, React Query, Tailwind CSS, Axios, Figma

**Backend:** Node.js, Express.js, PHP, Laravel, Laravel Horizon, REST APIs, Jest (Unit & Integration Testing)

**Data & Infrastructure:** PostgreSQL, MongoDB, MySQL, Redis, Docker, Kubernetes, AWS EC2, GCP, CI/CD, Git

**CS Fundamentals:** Data Structures & Algorithms, OOPs, Operating Systems, DBMS, Computer Networks

## PROJECTS

### Mealify – Live Demo | GitHub

- Integrated **Stripe** payment APIs for end-to-end checkout, handling webhooks and transaction reconciliation for secure order processing.
- Designed normalized **PostgreSQL** schemas using **Prisma ORM** and containerized with **Docker** for reproducible deployments.
- Reduced order-status refresh latency by **40%** via real-time state sync with **React Query + Zustand** over a **Dockerised Next.js/PostgreSQL** stack.

### Mystery Message – Live Demo | GitHub

- Developed an **AI-driven** messaging platform integrating **OpenAI's API** as a real-time **LLM** layer, increasing average session duration by **22%**.
- Implemented **OAuth 2.0** and **JWT**-based authentication with session security and email verification.
- Designed a normalized **MongoDB schema** and scalable data layer with fault-tolerant **REST API** routes for reliable message delivery under high traffic.

## ACHIEVEMENTS

- Specialist at **Codeforces** with a peak rating of 1490. | [Visit](#)
- Knight at **LeetCode** (Top 4.94%) with a peak rating of 1880. | [Visit](#)
- 4-star on **CodeChef** with a peak rating of 1864; global rank **25** out of **4K+** in Starters 156. | [Visit](#)
- Open-Source:** Delivered a merged fix for an incorrect test case on GeeksForGeeks, improving validation accuracy for millions of users.