

# Krishna Karthik Gopavarapu

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## Professional Summary

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Full Stack Developer and DevOps Engineer with **around 3 years of experience** building, deploying, and supporting scalable web applications. Strong expertise in **Kubernetes, CI/CD pipelines, React.js, Node.js, MongoDB**, and modern UI frameworks. Proven ability to troubleshoot production issues, collaborate with cross-functional teams, and deliver reliable, maintainable solutions in agile environments.

## Work Experience

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### Buildbot Technologies Pvt Ltd | Full Stack Developer & DevOps Engineer

*Apr 2023 – present*

#### DevOps Engineer (Apr 2023 – Mar 2024)

- Managed and monitored **Kubernetes clusters**, ensuring high availability, scalability, and performance.
- Investigated and resolved application and infrastructure issues by **analyzing cluster logs and metrics**.
- Automated build and deployment workflows using **Git and Jenkins CI/CD pipelines**.
- Supported containerized applications using **Docker and Kubernetes tooling**.
- Assisted with cloud infrastructure **on AWS (EKS, EC2, S3 – basic exposure)**.

**Tools & Technologies:** Kubernetes, Docker, Jenkins, Git, Lens, AWS (EKS, EC2, S3)

#### Full Stack Developer (Mar 2024 – Present)

- Developed an **Internal HR Management System** including:
  - Authentication & role-based access
  - Job postings and candidate management
  - Employee, leave, payroll, and office application management
- Designed and built **Krishi-CHC**, a digital **Custom Hiring Center (CHC)** portal with backend platform for FPOs, enabling farmers to manage
  - Agricultural machinery inventory
  - Booking workflows and transactional data
  - User roles (Farmer/Admin) with extensible RBAC
- Supported and enhanced a **pharma scientific data management system**, ensuring stability and issue resolution in production environments.
- Designed and implemented **RESTful APIs** and backend business logic using **Node.js and Express.js**.
- Implemented a **SQL-first**, schema-driven **backend architecture using PostgreSQL and Drizzle ORM**, ensuring strong data integrity, predictable queries, and type safety.
- Developed responsive, modern UIs using **React.js, Redux, TypeScript, Shadcn/UI, Material UI, and Tailwind CSS**.
- Designed and maintained **MongoDB schemas**, collaborating with team members on data modelling and optimization.

## Technical Skills

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- **DevOps & Tools:** Kubernetes, Lens, Git, Jenkins, Docker, AWS (EKS, EC2, S3 – basic)
- **Frontend:** React.js, Redux, TypeScript, Shadcn/UI, Material UI, Tailwind CSS
- **Backend:** Node.js, Express.js, REST APIs, WebSocket
- **Database:** MongoDB, PostgreSQL
- **Other:** Agile/Scrum, Jira, Debugging & Troubleshooting

## Projects

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- **HR Portal Website**

Internal recruitment and HR management platform for handling job postings, candidate tracking, employee management, leave, payroll, and office-related workflows with role-based access control.

- **Team Task Management Board**

Scalable and type-safe backend system for a digital Custom Hiring Center (CHC) enabling farmers within FPOs to manage agricultural machinery, bookings, and crop-related operations via a mobile application. Built using a SQL-first, schema-driven architecture to ensure data integrity, performance, and maintainability.

- **Pharma Data Management Application**

Enterprise-grade scientific data management system supporting pharma equipment and workflows, focused on production stability, issue resolution, and reliable handling of operational and scientific data.

## Education

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- Postgraduate Diploma in Rural Development, NIRDPR – 2021
- Bachelor's in Agricultural Engineering, ANGRAU – 2020