

# Ansul Agrawal

[ansulagrawal.in](https://ansulagrawal.in)

[ansulagrawal9@gmail.com](mailto:ansulagrawal9@gmail.com)

[github.com/ansulagrawal](https://github.com/ansulagrawal)

[linkedin.com/in/ansulagrawal](https://linkedin.com/in/ansulagrawal)

## PROFESSIONAL SUMMARY

Results-driven Software Engineer with 3+ years of experience building scalable full-stack applications and leading cross-functional development teams. Proven track record of optimizing system performance, reducing load times by up to 40%, and delivering enterprise solutions that serve thousands of users. Expert in React, Node.js, and cloud infrastructure with strong focus on automation, CI/CD, and modern DevOps practices.

## Technical Skill

**Frontend**– React, React Native, TypeScript, JavaScript, Redux Toolkit, Next.js, Tailwind CSS, Ant Design.

**Backend** – Node.js, Hapi.js, Express.js, FastAPI, Python, REST APIs, Microservices.

**Cloud & Database** – AWS, Azure, MySQL, PostgreSQL, MongoDB, Redis.

**DevOps & Tools** – Docker, Git, GitHub Actions, CI/CD, Nginx, Postman, Jira, Microsoft Intune, Power Automate.

## Professional Experience

### Software Engineer | RedAnt Technologies

Feb 2025 – Present

#### OTA Update System for Robots

Aug 2025 – Present

*Engineering remote firmware delivery platform for robotic fleet.*

- Architecting OTA (Over-the-Air) update system using FastAPI and Python for secure remote firmware deployment across field robotics units.
- Implemented enterprise-grade authentication and RBAC using Keycloak to secure device communication and management endpoints.
- Building React-based control dashboard for managing update rollouts, monitoring device status, and tracking deployment stages.
- Integrated Grafana for real-time telemetry visualization and system health monitoring.
- Established CI/CD pipeline with GitHub Actions and Azure for automated versioning, packaging, and deployment.

### Company SharePoint Portal

Feb 2025 – Nov 2025

*Centralized internal resource hub serving 100+ employees.*

- Designed and launched company-wide SharePoint portal consolidating HR tools, attendance, leave management, and announcements.
- Automated approval workflows using Power Automate, reducing administrative processing time by 70%.
- Reduced resource discovery time by 60% through intuitive information architecture and navigation design.
- Deployed portal as default homepage across all company devices (Windows/macOS) using Microsoft Intune browser management.

### Internal Task Automation

Feb 2025 – Nov 2025

*Enterprise workflow automation reducing manual effort by 80%.*

- Automated HR processes using Power Automate, Microsoft Lists, IVMS, and Teams, eliminating 15+ hours of weekly manual work.
- Built Leave Request System with automated approval routing and notifications, reducing HR processing time by 90%.
- Integrated IVMS attendance data for automated daily reporting, decreasing manual effort by 70%.
- Created automated birthday notifications and travel request workflows with multi-level approvals.
- Implemented centralized tracking dashboard improving visibility and reducing email volume by 50%.

### Process Management Platform

Mar 2025 – Apr 2025

*Full-stack business process automation solution.*

- Delivered end-to-end full-stack application using Fastify, MongoDB, React, and Tailwind CSS.
- Built scalable API architecture with Fastify optimized for high-performance and concurrent requests.
- Implemented JWT authentication and role-based access control securing user data and permissions.
- Established CI/CD pipeline with Bitbucket for automated testing and seamless deployment.

### Company Website Revamp

Feb 2025

*Next.js migration and performance optimization.*

- Migrated legacy static site to Next.js with SSG, reducing bundle size by 20% and improving page speed by 23%.
- Implemented code splitting, lazy loading, and image optimization resulting in 50% faster initial load time.
- Enhanced SEO through structured metadata and semantic HTML, improving search ranking by 2 positions.
- Developed accessible, WCAG-compliant UI components with full mobile responsiveness.

**Castor – Fleet Management Platform****Feb 2022 – Jan 2025***Led full-stack development of enterprise drone fleet management system serving 1000+ users.*

- Architected and delivered 50+ pages using React, Redux Toolkit, and Ant Design, improving page load times by 40% through code splitting and lazy loading optimization.
- Engineered 50+ RESTful APIs and 20+ core features using Hapi.js and Node.js with MySQL, achieving 15% faster data processing and supporting 500+ concurrent users.
- Led team of 6 engineers, conducting code reviews and establishing coding standards that reduced production bugs by 35%.
- Reduced bundle size by 20% through component reusability architecture and webpack optimization strategies.
- Built automated WhatsApp booking system using Meta API and Camunda, increasing user engagement by 20% and enabling 1000+ monthly farmer interactions.
- Designed intelligent booking automation algorithm that reduced pilot workload by 12% and saved 15+ hours weekly.
- Implemented Scrum methodology across technical teams, identifying and resolving top 3 crash-causing integration issues during testing phase.
- Established CI/CD pipeline using Bitbucket Pipelines, reducing deployment time from 2 hours to 15 minutes.

**Pegasus – Ticket Management Platform****Dec 2023 – Oct 2024***Delivered enterprise ticketing system supporting 100+ team members.*

- Led frontend team of 4 engineers, establishing code review processes and best practices that reduced technical debt by 25%.
- Built modular component architecture with React and Vite, accelerating feature deployment by 20% and supporting continuous delivery.
- Implemented real-time collaboration features using WebSocket, enabling instant team communication and reducing response time by 40%.
- Developed comprehensive task tracking workflow that increased team productivity by 30% and management efficiency by 24%.

**IRIS – Drone Tracking & Management Platform****Nov 2023 – Feb 2024***Delivered real-time drone monitoring solution for operational fleet.*

- Led 3-person frontend team in architecting high-performance React application with Redux Toolkit and Ant Design.
- Optimized codebase efficiency, reducing debugging time by 30% and accelerating development velocity.
- Integrated 20+ backend services through Agile collaboration, improving system reliability and reducing bug reports by 28% within 3 months.
- Developed real-time drone tracking using Server-Sent Events and Google Maps API, supporting monitoring of 50+ concurrent drone flights.

## Open-Source Contributor

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**React Big Schedule – Project Owner & Maintainer ([Link](#))**

- Maintain popular React scheduling library with 175+ stars, 45+ forks, and 2000+ weekly npm downloads.
- Manage community contributions, review pull requests, and ensure code quality standards.
- Continuously enhance features and performance based on user feedback and industry best practices.

## Education

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**REVA University | Graduated June 2022**

B. Tech in Computer Science and Engineering

**Bangalore, India**

8.49 CGPA

## Certifications

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- Advanced React – Meta | March 2023
- Front-End Web Development with React – The Hong Kong University of Science and Technology | July 2021
- Microsoft Certified: Azure Fundamentals | June 2021