

# ABHISHEK MANDAL

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## PROFILE SUMMARY

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A results-driven and detail-oriented DevOps professional with hands-on experience in streamlining development workflows, automating infrastructure, and ensuring system reliability. Skilled in containerization (Docker), orchestration (Kubernetes), and CI/CD pipeline management using tools like Ansible and shell scripting. Having experience optimizing cloud infrastructure on AWS and configuring high-performance LAMP stack servers to maintain exceptional system uptime. Demonstrated success in improving operational efficiency by automating manual tasks, significantly reducing deployment times, and enhancing system security through the implementation of best-practices. Passionate about fostering collaboration between teams and driving innovative solutions to meet business objectives.

## EXPERIENCE

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**Junior DevOps System Administrator**  
SAPNATECH INDIA LLP

Nov 2023 - Present  
*Panjim, Goa*

- Implement and manage Docker containers to streamline deployment processes and improve efficiency across development teams.
- Develop and maintain automated CI/CD pipelines using shell scripts for system deployment and maintenance, ensuring consistent high uptime.
- Configure and optimize LAMP stack environments on Debian GNU/Linux servers to enhance performance and stability.
- Conduct vulnerability assessments using OpenVas and apply security hardening practices to strengthen the security of the system.
- Support development teams through automation and orchestration to minimize manual tasks and improve workflow efficiency.

**Helpdesk Engineer**  
MICROSENSE NETWORKS PRIVATE LIMITED

Jun 2023 - Nov 2023  
*Candolim, Goa*

- Managed network infrastructure for Taj Holiday Village Resort & Spa, maintaining consistent high availability and performance standards
- Provided comprehensive technical support and troubleshooting for complex network issues, ensuring minimal service disruptions
- Implemented robust security measures and protocols to safeguard critical network infrastructure
- Conducted proactive system performance monitoring and regular maintenance to optimize network operations

**Full Stack Development Intern**  
HDSOFT TECHNOLOGIES PRIVATE LIMITED

Jun 2022 - Apr 2023  
*Bicholim, Goa*

- Developed SETU, a comprehensive Human Resource Management System using React.js and Node.js
- Implemented robust database architecture using PostgreSQL
- Utilized Git for version control and collaborative development
- Successfully converted internship project into final year BCA project

## TECHNICAL SKILLS

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Containerization & Orchestration	Docker, Kubernetes, Docker Compose
Cloud & Infrastructure	AWS (EC2, S3, RDS), Virtualization, Server Management
Automation & Configuration	Ansible, CI/CD Pipelines (Jenkins, GitLab CI)
System Administration	Linux (Debian, Ubuntu), Shell Scripting
Security & Networking	System Hardening, SSL/TLS, Network Security
Databases	PostgreSQL, MySQL

## EDUCATION

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**Bachelor of Computer Applications (BCA)** 2020 - 2023

DMC College, Assagao, Goa University

CGPA: 8.80

*Relevant Coursework:* Advanced Web Technologies, Database Management, Network Security, OS and System Administration, Python Programming, Cloud Computing

Focused on software development, system administration, and modern web technologies. Gained practical experience through projects in data analytics, e-commerce applications, and multimedia technology.

*Certifications:* Google UX Design Specialization, Coursera (Issued Aug 2022)

## KEY PROJECTS

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- **Automated Deployment System:** Designed and implemented an automated deployment process using Ansible to streamline system updates and application rollouts. By automating the entire deployment pipeline, the project significantly improved the efficiency of deploying changes, reduced manual intervention, and ensured consistency across environments.
- **Containerized Database Management System:** Architected and implemented a containerized application using Docker, featuring a MySQL database backend with complete CRUD operations. Implemented container orchestration, data persistence, and secure database connections, while ensuring optimal performance and scalability.
- **SETU - Human Resource Management System:** Developed and deployed a scalable Human Resource Management System (HRMS) as part of my final year project and internship. The application was built using React.js for the frontend, Node.js for the backend, and PostgreSQL for the database, ensuring a seamless user experience. Utilized GitHub for version control and collaborative development. The project was designed to enhance efficiency in HR processes, support a growing user base, and provide a robust solution for managing employee data and workflows.

## ADDITIONAL INTERESTS

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- Enjoy photography, focusing on capturing creative and unique moments
- Love learning new DevOps tools and trying them out in personal projects
- Interested in learning about new technologies to stay updated
- Enjoy traveling to new places and learning about different cultures