

Uday Surothiya

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Technical Skills

- **Languages:** C/C++, Python, SQL, Shell / Bash
- **Development:** React.js, Tailwind CSS, Javascript, Node.js
- **Cloud:** AWS (EC2, Lambda, EKS, S3, RDS, ECS, API Gateway), basic OpenShift (learning)
- **DevOps:** Docker, Kubernetes, Git, GitHub Actions, Terraform (learning), CI/CD pipelines, SonarQube
- **Monitoring:** AWS CloudWatch (used), ELK Stack (learning), Prometheus, Grafana
- **Tools:** Jenkins, systemd, Firebase, Postman, MongoDB, MySQL, Linux CLI

Projects

AWS DevOps Pipeline using Terraform and Jenkins |

July 2025 - July 2025

- **Tech Stack:** Flask, Terraform, Jenkins, EC2, CloudWatch, Prometheus, Grafana, Github
- Provisioned **dockerized infrastructure** on AWS EC2 using Terraform.
- Designed and implemented a **CI/CD pipeline** with Jenkins to auto-deploy code on each GitHub commit.
- Configured AWS CloudWatch Alarms to track CPU and memory usage, simulating real-world failover triggers.
- Integrated **Prometheus & Grafana** dashboards, enabling real-time system performance monitoring and proactive issue detection.

Developed a Real-Time Collaboration Platform | Applied Core Technologies |

Mar 2025 - May 2025

- **Tech Stack:** React.js, Node.js, Express.js, MongoDB, WebSocket, Firebase, TailwindCSS, Netlify, Render
- Built a web app for team communication and project management with real-time chat, Kanban boards, and live document editing.
- Implemented Firebase-based authentication for secure user onboarding and access control.
- Deployed using Netlify + Render with CI workflows for continuous testing and delivery.
- Conducted unit testing for backend APIs and improved code quality with peer reviews.

Deployed a scalable 3-tier web platform on AWS with production-grade architecture

Oct 2024 – Oct 2024

- **Tech Stack:** AWS EC2 (Auto Scaling), RDS (read replicas), S3, ALB, WAF, Terraform, GitHub Actions, systemd
- Used EC2 (autoscaling), RDS (read replicas), and S3 (static asset delivery) behind an ALB with WAF.
- **Automated infra using Terraform**, CI/CD via GitHub Actions + systemd, and configured **CloudWatch and alarms**.
- **Achieved 99.9% uptime** during simulated load tests (5,000 users), with auto-scaling triggered at 60% CPU usage.

ConvergeHub - a Collaborative app | Extending the collaboration platform |

Upcoming 2025

- **Tech Stack:** Docker, Kubernetes, Node.js, Redis, MongoDB, WebSocket, React.js, AWS (EKS, S3), RabbitMQ
- Migrate a monolithic app to microservices with a 4-member team, boosting scalability and maintainability.
- Orchestrating services with **Kubernetes (EKS)** for auto-scaling, resilience, and high availability.
- Introducing **Redis caching** and **RabbitMQ event-driven architecture** to reduce response latency by ~40% (projected).
- Building a **real-time notification system** for instant task updates and messaging.
- Implementing CI/CD pipelines, container testing, and peer code reviews to maintain quality in a distributed team environment.

Education

UPES, Dehradun

Aug 2022 – June 2026

Btech. Computer Science & Engineering (Specialisation - Cloud Computing and Virtual Technologies)

CGPA: 7.5

Experience

Cloud Project Intern, IBM (Remote)

June 2025 - July 2025

- Built a sentiment analysis web app using AWS **Comprehend** and **Sagemaker** on a Flask app, hosted on EC2.
- Automated GitHub-based deployments via **systemd** on instance boot for CI.
- Used IAM roles for secure, credential-free AWS access with Boto3.
- Configured public access, startup scripts, and environment-based credential fallback.
- **Tech Stack:** Flask, AWS, EC2, systemd, Boto3, S3, Github, IAM, CI

Achievements and Certifications

- IBM Ice day gold medalist
- AWS Academy Cloud Architecting
- AWS Academy Cloud Security Foundations

April' 24

Nov' 24