SHUBHAM SHARMA

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SUMMARY

- B.Tech CSE graduate with a strong skill set in DevOps and cloud engineering, specializing in designing and deploying scalable, high-performance solutions. Proficient in **Git, CI/CD (GitHub Actions, jenkins), Ansible, Docker, Kubernetes, Python, Shell-scripting, Nginx, Terraform**, with a solid foundation in automation, infrastructure as code, and seamless application deployment .

- Adept at optimizing workflows, enhancing system reliability, and implementing innovative cloud-native strategies to drive efficiency and scalability.

- Knowledgeable in cloud infrastructure management and optimizing application performance.

TECHNICAL SKILLS

Languages: Python, Shell-scripting.
Deployment Tools: AWS cloud.
Technologies: Git, GitHub, Nginx, CI/CD(GitHub Actions, Jenkins), Ansible, Docker, Kubernetes, Terraform, MongoDB, Prometheus, Grafana

PROJECTS

3-Tier-DevSecOps-Mega-Project ⧉ | Frontend, Backend, MySql, Devops Tolls   **June - 2025**

- **DevSecOps Project Deployment:** Engineered a secure 3-tier MERN stack application with user authentication, role-based access control (RBAC), and secure API integration; emphasized security-first development practices throughout the SDLC.
- **Frontend Implementation:** Built a dynamic, responsive ReactJS frontend with reusable functional components and hooks; implemented role-based rendering and secure login flows using JWT.
- **Backend API Development:** Designed modular RESTful APIs with Node.js and Express; integrated MySQL for structured data storage and Sequelize ORM for efficient data manipulation.
- **CI/CD Automation GitOps:** Automated build-test-deploy workflows using Jenkins CI/CD pipelines and GitHub Actions; incorporated Docker for app containerization and Helm for Kubernetes deployments.
- **Cloud Native Kubernetes Deployment:** Deployed the microservices architecture on AWS EKS using Kubernetes manifests, Ingress, and cert-manager with TLS to enable secure and scalable production-ready infrastructure.
- **Monitoring Observability:** Integrated Prometheus and Grafana for metrics visualization and alerting; captured application health and resource metrics via Node Exporter and cAdvisor.
- **Security Access Control:** Implemented DevSecOps best practices including Role-Based Access Control (RBAC), secrets management, and TLS encryption via Kubernetes cert-manager.

Todos-App ⧉ | ReactJS, Node.js, Express, MongoDB, Docker, Jenkins, GitHub Actions   **Nov 2024**

- **Full-Stack Development:** Designed and built a full-stack to-do list web application using the MERN stack (MongoDB, Express, ReactJS, Node.js), enabling users to create, update, and delete tasks with real-time UI updates.
- **Frontend Implementation:** Developed a responsive and interactive user interface using ReactJS and CSS; implemented state management and dynamic task rendering with functional components and React hooks.
- **Backend API Design:** Created RESTful APIs using Express.js and Node.js; handled task data operations with MongoDB for efficient storage and retrieval.
- **CI/CD Automation and Containerization:** Configured GitHub Actions to automate testing and deployment workflows; containerized the app using Docker and deployed on an AWS EC2 instance, streamlining scalability and deployment.
- **Testing and Reliability:** Implemented unit and integration testing for frontend and backend to ensure application reliability and maintainability.

INTERNSHIP

BLW ↗
Web Developer Intern, Networking specialization(routing)

Oct - 2024
Varanasi, India

- Developed web applications using HTML, CSS, JavaScript, ReactJS, and PHP, enhancing efficiency and reducing load time by 30 Percent for better user experience.

- Implemented **responsive design** principles to ensure websites are mobile friendly .

- Developed a dynamic blogging platform where users can create, edit, and publish blog posts. The website supports user authentication, comment sections, and an intuitive UI for seamless navigation.

- Utilized version control systems such as **Git** to manage source code changes.

PW ONLINE COURSE

PW SKILLS ↗
Devops and Cloud Computing

08 2024 – 03 2025
Online Mode

- Worked on a live project deployment during my PW Skills course, setting up CI/CD pipelines, deploying applications on cloud platforms, and integrating monitoring tools for performance tracking. Developed and tested a To-Do app with unit and integration tests, containerized it using Docker, automated deployments with Ansible, orchestrated with Kubernetes, and implemented CI/CD using Jenkins for seamless application management.

CERTIFICATION

GUVI ↗
Guvi's DevOps Certificate

Oct - 2024
India

- The certifications I obtained from Guvi in DevOps tools and fundamentals have significantly enhanced my understanding of modern software development practices .

- Implemented **responsive design** These certifications covered a wide range of critical topics, including continuous integration, continuous delivery, version control, and automated testing.

- I have gained valuable skills that will allow me to streamline development workflows, improve collaboration, and ensure faster delivery of high-quality software

- Utilized version control systems such as **Git** to manage source code changes.

EDUCATION

Kashi Institute Of Technology, Varanasi
B.Tech - Computer Science and Engineering - ***CGPA*** *-* ***7.5***

2021 – 2025
Varanasi, India

St.Thomas International Schooll, Varanasi
XII - - ***68%***

2020 – 2021
Varanasi, India