

ARNAV SHARMA

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OBJECTIVE

Computer Science graduate, and DevOps Engineer with hands-on experience in cloud infrastructure, and full-stack development. Skilled in building CI/CD pipelines, containerized applications, and real-time ML systems, with a strong interest in automation, scalability, and cloud-native solutions.

EDUCATION

B.Sc. Computer Science and Information Technology, Tribhuvan University 2020-2025

Relevant Coursework: Data Structures and Algorithms, Cryptography, Design and Analysis of Algorithms, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Image processing, Network Security, Data Warehousing and Data Mining

EXPERIENCE

Associate DevOps Engineer Nov 2024 – Present
Quickfox Technologies *Kopundole, Lalitpur*

- Designed and deployed scalable CI/CD pipelines using GitHub Actions to streamline deployment workflows in different environments.
- Deployed and maintained internal ISMS platforms including Vault, VPN, Teleport, and the Grafana Stack.
- Managed cloud infrastructure using AWS and Cloudflare to provision and maintain develop, uat, demo, and production environments for client projects.
- Administered Azure-based infrastructure leveraging services like App Service, Static Web Apps, Azure Cosmos DB for MongoDB, Service Bus, and more.
- Employed Terraform as Infrastructure-as-Code (IaC) for managing Azure resources; also gained exposure to AWS CloudFormation.
- Managed a preconfigured Amazon EKS cluster using Kustomize and maintained CI/CD pipelines for a microservices-based architecture using GitHub Actions and AWS CodePipeline.
- Deployed and maintained a dynamic monitoring ecosystem utilizing Prometheus, Grafana, and ELK, integrating various open-source tools to ensure 24/7 visibility into cluster health and application performance
- Maintained a proper technical and non-technical documentation for internal team usage as well as for stakeholders.

DevOps Intern Aug 2024 – Nov 2024
Quickfox Technologies *Kopundole, Lalitpur*

- Led the development of CI/CD pipelines using Jenkins and GitLab to automate application delivery processes.
- Acquired practical experience with AWS services, container orchestration, and system monitoring tools.
- Gained hands-on experience in managing security access protocols and overseeing real-time monitoring across various banking projects.
- Explored and utilized server monitoring and access control tools, including Portainer, Dozzle, and Beszel, to enhance system observability.
- Developed foundational skills in Kubernetes within a large-scale enterprise environment using GitOps methodologies.

Student Intern Jan 2024 – Jul 2024
College of Applied Business and Technology Innovation Hub *Gangahiti, Kathmandu*

- Led a small team of students in developing a PHP Laravel-based school management system for the college.

- Designed and built the frontend for the Laravel API using React JS.
- Contributed to project documentation and created user manuals to support system adoption.
- Assisted in digital marketing efforts through content creation, script editing, and basic design work using Figma.

SKILLS

Programming Languages	Python, Go, JavaScript, C++, C, C#, PHP, SQL, Bash
Frameworks & Libraries	Laravel, FastAPI, Flask, Streamlit, Bootstrap, Chainlit, TailwindCSS, ReactJS, NextJS
Tools & Technologies	Linux/Unix Administration, Docker, Jenkins, Git, GitHub Actions, Kubernetes, Terraform, CloudFormation, AWS, Azure, Cloudflare, Apache, NGINX, MongoDB, PostgreSQL, MySQL
Development Tools	Jira, Trello, Slack, IntelliJ, PyCharm, Visual Studio, Jupyter Notebooks, Postman
Other	CI/CD, GitOps, Infrastructure as Code (IaC), Monitoring (Grafana Stack), VPN, Vault, Teleport

PROJECTS

Full-Stack Observability and Monitoring. Architected a monitoring ecosystem using Prometheus, Node-Exporter, and Grafana for infrastructure health, alongside an ELK stack for centralized logging. Integrated automated alerting via Google Chat to streamline incident response.

High-Availability Database Migration. Orchestrated the migration of a mission-critical MongoDB native cluster to Azure Cosmos DB. Maintained 100% availability and data integrity throughout the transition, ensuring zero downtime for production services.

Infrastructure as Code (IaC) Automation. Developed a modular Terraform codebase on Azure to manage segregated development environments. Automated the deployment of complete, feature-specific stacks, enabling rapid environment provisioning and consistent environment parity.

Vehicle Collision Detection System. Developed a real-time collision detection system using a fine-tuned Faster R-CNN model with a ResNet-50 backbone. Trained first on a large vehicle dataset and then on a custom-labeled accident dataset to classify vehicles and detect collisions with high accuracy.

E-commerce Application. Developed a fully responsive e-commerce platform using Laravel and TailwindCSS, integrating payment system APIs like Stripe and a mailing system with Mailtrap to ensure smooth transactional and user interaction workflows. ([Check it out here](#))

EXTRA-CURRICULAR ACTIVITIES

- Selected for AWS Cloud Club Fellowship, where I gained expertise in various AWS services.
- Participated in Techtrix 2023, developing an NGO portal in 36 hours using Springboot.
- Competed in Hex-Himalaya 2023, designing autonomous robots for soccer matches.
- Served as a member of the College Student Council, organizing events and addressing student issues.