

# ARNAV SHARMA

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## OBJECTIVE

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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

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**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

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### Associate DevOps Engineer

Quickfox Technologies

Nov 2024 – Present

*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

Quickfox Technologies

Aug 2024 – Nov 2024

*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

College of Applied Business and Technology Innovation Hub

Jan 2024 – Jul 2024

*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

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

## PROJECTS

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**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

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- 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.