

# ARNAV SHARMA

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## OBJECTIVE

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Computer Science student with hands-on experience in DevOps, 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** 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.

**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

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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>	Docker, Jenkins, Git, GitHub Actions, Kubernetes, Terraform, Cloud-Formation, 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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**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](#))

**Robo-Soccer Bots.** Engineered autonomous Robo-Soccer bots using Arduino-Uno and Monster-Moto Driver, with dual control via Bluetooth and Flysky. Demonstrated effective use of embedded systems for real-time control in competitive environments.

**E-governance Chatbot.** Built an NLP-based chatbot using LLaMA and FAISS for efficient document retrieval and analysis, enabling legal document processing at scale. Implemented vector storage, RAG techniques, and a document processing pipeline. ([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.