

ARNAV SHARMA

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OBJECTIVE

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

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 *Jhamsikhel, Lalitpur*

- Designed and deployed scalable CI/CD pipelines using GitHub Actions to streamline deployment workflows in different environments.
- Managed cloud infrastructure using AWS and Cloudflare to provision and maintain demo environments for client projects.
- Deployed and maintained internal ISMS platforms including Vault, VPN, Teleport, and the Grafana Stack.
- 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.

DevOps Intern Aug 2024 – Nov 2024
Amnil Technologies *Dhobighat, 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.
- 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, JavaScript, C++, C, C#, PHP, SQL, Bash
Frameworks & Libraries	Laravel, FastAPI, Flask, Streamlit, Bootstrap, Chainlit, TailwindCSS, ReactJS, NextJS
Tools & Technologies	Docker, Jenkins, Git, GitHub Actions, Kubernetes, Terraform, Cloud-Formation, 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

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

- 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.