

SANDIP PHUYAL

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PROFESSIONAL SUMMARY

A highly motivated and enthusiastic IT graduate with a strong foundation in DevOps, cloud infrastructure, and software development. Extensive experience in building and managing CI/CD pipelines, automating cloud resource provisioning, and collaborating with development teams to enhance deployment processes. Proficient in Docker containerization, cloud deployment using AWS, and optimizing application performance. Skilled in various programming languages, cloud technologies, and tools, with a proven ability to deliver high-quality solutions in fast-paced environments.

EDUCATION

Bachelor of Information Management

📅 2019 - 2024

Tribhuvan University 📍 Nepal

EXPERIENCE

DevOps Intern

📅 July 2024 - October 2024

Cloudlaya Technologies 📍 Lalitpur, Nepal

- Deployed and managed web applications on AWS EC2 instances and utilized S3 for static file hosting. Managed identity and access using IAM to ensure secure deployment.
- Built and maintained CI/CD pipelines for MERN-based web applications using GitHub Actions, automating testing and deployment of Dockerized applications to AWS.
- Integrated security tools like SonarQube for automated code analysis and vulnerability scanning to ensure secure coding practices.
- Configured and managed Linux system, implementing networking protocols like TCP/IP and DNS. Worked on securing systems through firewalls and SSL/TLS for secure communications.
- Deployed Nginx and Apache web servers, implemented load balancers, and configured reverse proxies to manage traffic distribution improve application performance.
- Designed and implemented a branching strategy using Git to support parallel development for a multi-team project.
- Developed and implemented a multi-environment CI/CD pipeline using GitHub Actions to automate code deployment and testing across development, staging, and production environments. The pipeline built and pushed Docker images to AWS ECR and automated the deployment of the latest images to EC2 instances using Docker Compose.

SKILLS

- Programming Languages:** JavaScript, C++
- Web Technologies:** HTML, CSS
- Databases:** MySQL, PostgreSQL, MongoDB
- Tools & Platforms:** Git, Docker, AWS, Grafana, AWS ECS, AWS ECR, GitHub Actions

- **Cloud Infrastructures:** AWS (EC2, S3, ECS, ECR, Route 53)

PROJECTS

Student Management System

📅 October 2024

Description: Developed a comprehensive web application for managing student information and interactions, utilizing React for the frontend and Node.js for the backend.

- **Frontend Development:** Designed and implemented a user-friendly interface using React, enabling smooth navigation and interaction for students, teachers, and administrators.
- **User Authentication and Authorization:** Developed secure authentication and authorization mechanisms, including role-based access control, to ensure that users can only access appropriate features and data.
- **Notice Management:** Created functionality for administrators to compose and distribute notices to students, with features for scheduling and tracking notice delivery.
- **Backend Development:** Built a robust backend using Node.js and Express, handling data management, business logic, and API endpoints for communication between the frontend and the database.
- **Database Design:** Implemented a relational database using MySQL to store and manage student records, course information, and user data.
- **CI/CD Pipeline:** Set up and configured a Continuous Integration/Continuous Deployment (CI/CD) pipeline using GitHub Actions, automating testing, building, and deployment processes to AWS.
- **Deployment:** Deployed the application on AWS, utilizing services like EC2 for hosting and S3 for static asset storage, ensuring high availability and scalability.

Point of Sale (POS) System for Supermarkets

📅 September 2024

Description: Developed a POS system for a supermarket to manage sales transactions, inventory, and customer data.

- Implemented a database for managing products, customers, and transactions using MySQL.
- Designed a user-friendly interface with real-time inventory updates.
- Integrated barcode scanning and receipt generation for faster checkouts.
- Enabled data export for reports and analytics to improve sales and inventory management.

Additional Projects & Experience

Docker & CI/CD Pipelines Integration

Successfully integrated Docker with CI/CD pipelines to automate the process of building and deploying containerized applications to the cloud (AWS). Deployed Dockerized applications on AWS ECS, ensuring scalability.

Key Docker Related Tools and Technologies:

Docker, Docker Compose, AWS ECS, AWS ECR, AWS CloudWatch, GitHub Actions

CERTIFICATIONS

- AWS Technical Essentials
- AWS Partner: Cloud Economics Essentials
- AWS Partner: Sales Accreditation
- AWS Knowledge: Cloud Essentials
- AWS Knowledge: Architecting

LANGUAGES

English:	Fluent
Nepali:	Native

PROFESSIONAL DEVELOPMENT

- Completed online course on *Advanced Docker*
- Participated in webinar on *CI/CD Best Practices*
- Attended training in *AWS Cloud Computing*, covering core AWS services like EC2, S3, and Lambda.

INTERESTS

Problem Solving, Sports, Traveling, Teamwork