

NISHANT KHADKA

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github.com/nishant-nez nishantkhadka.com.np

Education

Deerwalk Institute of Technology

Bachelors of Science in Computer Science and Information Technology (B.Sc. CSIT)

2021 – Present

Sifal, Kathmandu

Little Angels' College

+2 with Physical Science.

2018 – 2020

Hattiban, Lalitpur

Experience

Software Developer Intern

Green Tick Nepal

Jul 2024 – Nov 2024

Gyaneshwor, Kathmandu

- Engaged in research and development of a Security Information and Event Management (SIEM) system, focusing on effective utilization of Elasticsearch.
- Developed a Ticket Management System with advanced Ticket, SLA, User, Reports and Notification management.
- Led the development of a DDoS protection system, overseeing tools setup, configuration, automation, coding, deployment and product management.
- Implemented Redis to streamline processes, resulting in reduced load times and improved response times.
- Set up, configured, and managed the ELK stack, including the development and optimization of data pipelines.
- Conducted extensive research on the dark web and online security, enhancing knowledge in cybersecurity best practices and threat mitigation.

DevOps and Networking Intern

Deerwalk Education Group

Dec 2022 – Apr 2024

Sifal, Kathmandu

- Developed and deployed a network monitoring web application with real-time tracking and alert notifications.
- Created a QR code-based inventory management system to enhance asset tracking.
- Managed AWS instances and local server infrastructure for optimal performance and reliability.
- Automated Fortinet firewall tasks to improve operational efficiency.
- Deployed applications on AWS and local servers, establishing CI/CD pipelines and utilizing Docker for containerization.
- Contributed to the migration to fiber optic cabling, enhancing network speed and reliability.
- Provided IT support and managed the overall network infrastructure for seamless operations.

Projects

Book Store | *ASP.NET Core 8.0 MVC, Razor Pages, .NET Identity, MS SQL Server 2022, EF Core* | Github

Feb 2025

- Developed a full-stack book store application with CRUD operations, image uploads, and role-based authentication using ASP.NET Core Identity.
- Designed and implemented N-Tier Architecture with Repository Pattern, separating admin and customer logic using Areas.
- Configured Entity Framework Core with SQL Server 2022, implemented EF Migrations, and managed database connections securely.
- Integrated Toastr notifications and server-side/client-side validation for an enhanced user experience.
- Utilized dependency injection, optimized routing, and incorporated Razor Pages for improved efficiency and maintainability.

Personalized Healthcare System | *Django DRF, React, PostgreSQL* | GitHub

Oct 2024

- Data analysis, feature extraction and model training on symptoms and disease datasets.
- Developed a web app for disease prediction using SVC, token-based authentication, hospital search using live location, blogs, and medicine reminder scheduling with email notifications.
- Utilized Celery and Redis for message queuing and notification scheduling.

Gromi | *PostgreSQL, Express JS, React JS* | gromi.com.au | GitHub

July 2024

- Developed an e-commerce platform with payment integration via Stripe.
- Integrated real-time location filtering to display nearby vendors' products
- Built responsive UI in React, along with vendor and admin dashboards for managing products, orders, and categories.

Online Voting System | *Django, PostgreSQL, Tailwind* | election.nishantkhadka.com.np | GitHub **April 2024**

- Developed a Django web app for online elections with authentication, voting functionality, and admin views for managing elections, candidates, and results.
- Integrated ChartJS to visualize vote counts and election data, including countdown timers for deadlines.

Real Estate Marketplace | *Next JS, PostgreSQL, Fast API, BeautifulSoup* | GitHub **March 2024**

- Scraped real estate data from Nepali marketplace, performed data analysis, data cleaning and trained model for price predictions.
- Developed a web platform for buying and selling houses, apartments and lands.
- Implemented chat functionality using Socket.io for real-time communication between buyers and sellers.
- Created a house price recommendation model using Random Forest, trained on scraped data from Nepali real estate sites.

Network Monitoring | *React, Express JS, Node JS, MongoDB* | network.deerwalk.edu.np | GitHub **October 2023**

- Developed and deployed network devices monitoring app to monitor network devices with interactive charts.
- Implemented updates every 5 minutes with email alerts for device status.
- Implemented cron jobs to remove old database entries weekly.

Netflix Clone Deployment | *Docker, SonarQube, Trivy, AWS, Jenkins, Grafana, Kubernetes* | GitHub **July 2023**

- Deployed a Dockerized application on AWS EC2 with automated Jenkins pipeline for building, testing, and deployment.
- Implemented SonarQube, Trivy for security scanning, and set up Prometheus and Grafana for system performance monitoring.
- Deployed the application on AWS EKS using Kubernetes, Helm charts, and ArgoCD for continuous deployment.

Life Organizer | *Django, PostgreSQL, Celery, RabbitMQ* | life-organizer.nishantkhadka.com.np | GitHub **August 2023**

- Developed a productive web app with Task Management, Goal Tracking, Notes, Google Calendar Sync, and Analytics.
- Implemented secure authentication using Django and PostgreSQL for user management.
- Enabled email reminders using Celery and RabbitMQ, and designed an Analytics page with interactive charts.

Technical Skills

Languages: JavaScript, TypeScript, Python, C, C++, SQL, C#, Bash

Frameworks/Libraries: React JS, Express JS, Node JS, Django, Django DRF, Nest JS, .NET, Fast API

Technologies: AWS, Docker, Linux, GitHub, RabbitMQ, Redis, Elasticsearch, ELK Stack, SIEM

Achievements / Extracurricular

- Track winner of KU Hack Fest 2024 (AR/VR Track).
- Top 10 Finalist at Spirathon- Public Data Innovation.
- Finalist at Step Into The Future, an International Forum for Scientific Youth in Russia.
- Winner of the Python Coding Challenge from the Software Club at Deerwalk Institute of Technology.
- Winner of the Photo Manipulation Competition from the Media Club at Deerwalk Institute of Technology.
- Past Executive Member of Deerwalk Developers Community.
- Past Executive Member of Deerwalk Music Club.
- Achieved the Data Analyst career track certification from DataCamp.